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Product data sheet

beta Catenin Polyclonal Antibody (CAT-15)

Catalog Number 71-2700

Catalog Number	71-2700		
Details		Species Reactivity	
Size	100 µg	Species reactivity	Chicken, Human, Mouse, Rat, Xenopus
Host/Isotope	Rabbit / IgG	Published species	Dog, Avian, Rabbit, Rat, Pig,
Class	Polyclonal		Amphibian, Human, Mouse, Not Applicable, Xenopus
Туре	Antibody		
Clone	CAT-15	Tested Applications	Dilution *
	A 15-amino acid synthetic peptide	ELISA (ELISA)	0.1-1 mg/mL
Immunogen	derived from the C-terminus of the human/mouse beta-catenin protein.	derived from the C-terminus of the Immunohistochemistry (Paraffin)	1:20-1:200
Conjugate	Unconjugated	Immunoprecipitation (IP)	5-10 µg
Form	Liquid	Western Blot (WB)	1-2 μg/mL
Concentration	0.25 mg/mL	Immunocytochemistry (ICC/IF)	Assay-dependent
Purification	Antigen affinity chromatography	Published Applications	
Storage buffer	PBS, pH 7.4	Immunocytochemistry (ICC/IF)	See 12 publications below
Contains	0.1% sodium azide	Immunohistochemistry (IHC)	See 7 publications below
Storage Conditions	-20°C	Western Blot (WB)	See 16 publications below
		ChIP assay (ChIP)	See 3 publications below
		Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
		Immunoprecipitation (IP)	See 2 publications below
		Miscellaneous PubMed (Misc)	See 3 publications below
		Immunohistochemistry (Frozen) (IHC (F))	See 4 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their owr experiment using appropriate negative and positive controls.

Product specific information

This antibody can be used to specifically immunoprecipitate the ~ 92 kDa beta-catenin protein from native cell lysates. It is suitable for use in immunoprecipitation (IP) and IP/western applications. Note that when the antibody is used for straight western blotting, cross-reactivity with a ~100 kDa protein of unknown identity is sometimes observed. Suggested positive control lysates include HeLa and A431.

Background/Target Information

Beta-catenin, an adherens junction (AJ) protein, was originally identified as a component of cell-cell adhesion structures. AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. Beta-catenin interacts with the cytoplasmic domain of E-cadherin and links E-cadherin to alpha-catenin, which in turn mediates anchorage of the E-cadherin complex to the cortical actin cytoskeleton. Studies show that Beta-catenin also binds to another cytoskeletal complex containing the adenomatous polyposis coli protein and microtubules, and interacts with several signaling pathways that include tyrosine kinases, phosphatases and Wnt/Wingless. The interplay between betacatenin, cytoskeletal complexes and signaling pathways may regulate morphogenesis. Beta-catenin is expressed in several hair follicle cell types, basal and peripheral matrix cells, and cells of the outer and inner root sheats. A pathological role of beta-catenin has been identified in pilomatrixoma (PTR), medulloblastoma (MDB), colorectal cancer (CRC), ovarian cancer, and tumor development. In the nucleus, beta-catenin serves to co activate a family of Lef/Tcf transcription factors that stimulate transcription of target genes including those encoding cyclin D and c-myc that promote cell proliferation. The influence on cell proliferation is the molecular basis for the role of beta-catenin in tumorgenesis, specifically, solid tumors of the breast, colon, liver, lung, gastric, prostate, and skin.

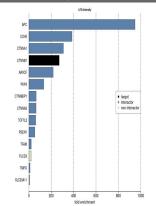
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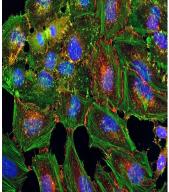
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Product Images For beta Catenin Polyclonal Antibody (CAT-15)



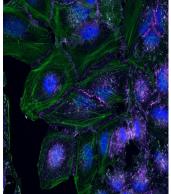
beta Catenin Antibody (71-2700)

IP-MS enrichment of CTNNB1 (LFQ intensity): CTNNB1 was enriched 271-fold from HCT116 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and CTNNB1 antibody (Product # 71-2700). STRING database was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



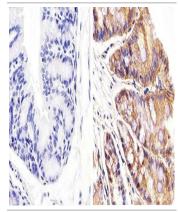
beta Catenin Antibody (71-2700) in ICC/IF

HeLa cells were plated on coverslips overnight. The next day the cells were fixed and permeabilized using the ImageiT® Fixation/Permeabilization Kit (Product # R37602) according to protocol. Cells were then incubated with 3 µg/mL anti-B-catenin antibody (Product # 71-2700) for 60 min at room temperature followed by three washes with dPBS. Cells were then incubated with a 1:1000 dilution of goat anti-rabbit Qdot® 655 secondary antibody (Product # Q-11421MP) for 60 min, followed by three washes with dPBS. Cells were labeled with NucBlue® Live cell stain (Product # R37605) and ActinGreen[™] 488 ReadyProbes® reagent (Product # R37110) according to protocol. Coverslips were then mounted using ProLong® Gold Antifade Reagent (Product # P36930). Images were taken using the EVOS® FL Auto Imaging System and a 40X Coverslip corrected objective (Product # AMEP4699).



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beta Catenin Antibody (71-2700) in IHC (P)

Immunohistochemistry analysis of Beta-Catenin showing membrane and weak cytoplasm staining of paraffinembedded mouse colon tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Beta-Catenin Rabbit Polyclonal Antibody (Product # 71-2700) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

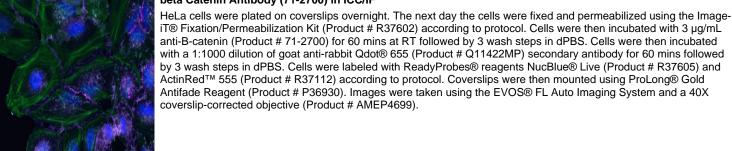
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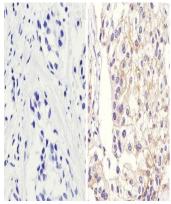
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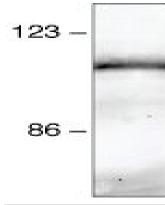
beta Catenin Antibody (71-2700) in ICC/IF





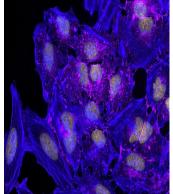
beta Catenin Antibody (71-2700) in IHC (P)

Immunohistochemistry analysis of Beta-Catenin showing staining in the membrane of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Beta-Catenin Rabbit Polyclonal Antibody (Product # 71-2700) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



beta Catenin Antibody (71-2700) in IP

Immunoprecipitation and Western Blot Analysis: Immunoprecipitation followed by western blot analysis of HeLa cell lysates using rabbit anti-beta-catenin polyclonal antibody (Product # 71-2700).



beta Catenin Antibody (71-2700) in ICC/IF

HeLa cells were plated on coverslips overnight. The next day the cells were fixed and permeabilized using the ImageiT® Fixation/Permeabilization Kit (Product # R37602) according to protocol. Cells were then incubated with 3 µg/mL anti-B-catenin antibody (Product # 71-2700) for 60 min at room temperature followed by three washes with dPBS. Cells were then incubated with a 1:1000 dilution of goat anti-rabbit Qdot® 655 secondary antibody (Product # Q-11421MP) for 60 min, followed by three washes with dPBS. Cells were labeled with NucBlue® Live cell stain (Product # R37605) and ActinGreen[™] 488 ReadyProbes® reagent (Product # R37110) according to protocol. Coverslips were then mounted using ProLong® Gold Antifade Reagent (Product # P36930). Images were taken using the EVOS® FL Auto Imaging System and a 40X Coverslip corrected objective (Product # AMEP4699).

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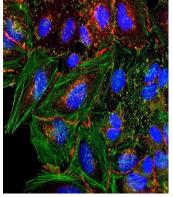
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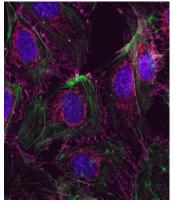
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beta Catenin Antibody (71-2700) in ICC/IF

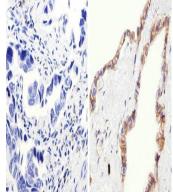


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beta Catenin Antibody (71-2700) in ICC/IF

Human Umbilical Vein Endothelial Cells (HUVEC; C0035C) were grown to confluency in Medium 200 (Product # M-200-500) plus Large Vessel Endothelial Supplement (LVES; Product # A1460801). Cells were fixed with 4% formaldehyde and permeablized with 0.25% Triton[™] X-100 followed by staining with mouse anti-ATP synthase subunit IF-1 monoclonal antibody (Product # A-21355) and rabbit anti-ß-Catenin polyclonal antibody (Product # 71-2700). Primary antibodies were detected with Qdot® 605 Goat F (ab')2 anti-mouse IgG Conjugate (Red; Product # Q11002MP) and Qdot® 655 Goat F (ab')2 anti-rabbit IgG Conjugate (Magenta, Product # Q-11421MP), respectively. Cells were counterstained with NucBlue® Fixed Cell (Blue; Product # R37606) and ActinGreen[™] 488 (Green, Product # R37110) ReadyProbes[™] Reagents. Cover slips were air dried, mounted with Cytoseal[™] 60, and imaged on a Zeiss LSM 710 confocal microscope.



beta Catenin Antibody (71-2700) in IHC (P)

Immunohistochemistry analysis of Beta-Catenin showing staining in the membrane and cytoplasm of paraffinembedded human lung adenocarcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Beta-Catenin Rabbit Polyclonal Antibody (Product # 71-2700) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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/2 is a critical switch for nuclear positioning and may play a role in the pathogenesis of cardiomyopathy caused by LM Mouse / Not Cited Developmental cell (2019; 51: 602) "ERK/12 Phosphorylation of FHOD Connects Signaling and Nuclear Positioning Alternations in Cardiac Lampathy." Mouse / Not Cited Terminational transmission of the Connects Signaling and Nuclear Positioning Alternations in Cardiac Lampathy. Rat / 1:100 FASEB journal - official publication of the Federation of American Socielies for Experimental Biology (2017; 31: 564) Rat / 1:100 FASEB journal - official publication of the Federation of American Socielies for Experimental Biology (2017; 31: 564) "Regulation of the biod-testis barrier dynamics in the tests: role of laminin 2 in the basement membran Author(s):Gao Y, Muk D, Chen H, Lui WY, Lee WM, Cheng CY Not Applicable / Not Cited Thromosis research (2016; 143: 34) "Hemodynamics associated with atrial fibrillation directly atters thrombotic potential of endothelial cells." Author(s): Summers M, Gole BK, Ogleter ML, Chen Z, W, Kong LJ, Macham B, Blackmen BF, Wanhoff BR PubMed Article URL: http://dx.doi.org/10.1016/j.timmers.2016.04.022 T1-2700 was used in immunocytochemistry to determine the role of P-glycoprotein in the blood-testis barrier The international journal of blochemistry and western blot to examine the organization of actin microfilaments in Se cell at the blood testis barrier The international journal of blochemistry and western blot to examine the organization of actin microfilaments in S	12 Immunocytochemistry I	References
Zi is a critical switch for nuclear positioning and may play a role in the pathogenesis of cardiomyopathy caused by LM mutations. Mouse / Not Cited Developmental call (2018; 51:602) Teaminopathy: Authordy: Andou S. Wu W.Joseph LC.Morrow JP.Worman HJ.Gundersen GG PubMed Aride URL:http://kt.doi.org/10.1016/j.devel.2019.10.023 Rat / 1:100 T22700 was used in immunocytochemistry and vestem bot to explore how laminn2 in the basement membrane modulates the blood testis barrier dynamics during spermatogenesis. Rat / 1:100 FASEB journal : official publication of the Faderation of American Societies for Experimental Biology (2017; 31: 584) "Regulation of the biod-testis barrier dynamics during spermatogenesis. FASEB journal : official publication of the Faderation of American Societies for Experimental Biology (2017; 31: 584) "Regulation of the biod-testis barrier dynamics during spermatogenesis. The biod-testis barrier dynamics associetated with artial fibriliation Not Applicable / Not Cited Thormobasi research (2016; 143: 34) "Therodynamics associetad with artial fibriliation directly alters thrombotic potential of endothelial cells." Author(s): During directors 2016; 0.4022 Not Applicable / 1:50 The international journal of biochemistry 5 cell biology (2009; 41: 2578) "Therodynamics associetad with artial fibriliation directly alters thrombotic potential of endothelial cells." Author(s): Li Chang CY Mutk DD Not Applicable / 1:50 "Devestive and provide therein an the organization of actin microfilaments in Se coil a the biod t	Species / Dilution	Summary
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"Regulation of the blood-testis barrier by a local axis in the testis: role of laminin 2 in the basement membran Authors).Goa CMIN B, Ochen HL, UW, Lee WM, Loheng CY PubMed Article URL:http://dx.doi.org/10.1096/j.201600870R Not Applicable / Not Cited "Thrombosis research (2016; 143: 34) "Hemodynamics associated with atrial fibrillation PubMed Article URL:http://dx.doi.org/10.1096/j.201600870R Not Applicable / Not Cited "Thrombosis research (2016; 143: 34) "Thrombosis research (2016; 143: 34) "Thrombosis research (2016; 143: 34) "PubMed Article URL:http://dx.doi.org/10.1016/j.thromes.2016.04.022 71-2700 was used in immunocytochemistry to determine the role of P-glycoprotein in the blood-testis barrier Not Applicable / 1:50 "The international journal of blochemistry & cell biology (2009; 41: 2578) "Toget grasporter, Pub/coprotein (MRR1), is an integrated component of the mammalian blood-testis barrier. Author(s): Su L Cheng CY Muck DD PubMed Article URL:http://dx.doi.org/10.1016/j.biocel.2009.08.015 T12700 was used in immunocytochemistry and western blot to examine the organization of actin microfilaments in Se cell at the blood testis barrier Rat / 1:500 Spermatogenesis (2016; 6:) "Toverspression of plastin 3 in Sertoli cells disrupts actin microfilament bundle homeostasis and perturbs th tight hugh Link UML (Link		712700 was used in immunocytochemistry and western blot to explore how laminin2 in the basement membrane
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Species / Dilution	Summary
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Rat / 1:100	Endocrinology (2005; 146: 1893) "Blood-testis barrier dynamics are regulated by {alpha}2-macroglobulin via the c-Jun N-terminal protein kinase pathway." Author(s):Wong CH,Mruk DD,Siu MK,Cheng CY PubMed Article URL:http://dx.doi.org/10.1210/en.2004-1464
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Xenopus / 1:500	Developmental biology (2019; 450: 115) "Desmoplakin is required for epidermal integrity and morphogenesis in the Xenopus laevis embryo." Author(s):Bharathan NK,Dickinson AJG PubMed Article URL:http://dx.doi.org/10.1016/j.ydbio.2019.03.010
	71-2700 was used in Immunohistochemistry to show that PVM infection and CS exposure additively upregulates the IL-20 pathway, leading to the promotion of epithelial damages.
Mouse / Not Cited	Biomedicines (2021; 9:) "IL-20 Cytokines Are Involved in Epithelial Lesions Associated with Virus-Induced COPD Exacerbation in Mice." Author(s):Le Roux M,Ollivier A,Kervoaze G,Beke T,Gillet L,Pichavant M,Gosset P PubMed Article URL:http://dx.doi.org/10.3390/biomedicines9121838
16 Western Blot Reference	ces
Species / Dilution	Summary
	71-2700 was used in Western Blotting to investigate the function of ROS proto-oncogene 1 receptor tyrosine kinase in regulating the migration and proliferation of acute myeloid leukaemia cells through Wnt/-catenin signalling, and in arsenic trioxide treatment.
Human / 1:200	Oncology letters (2018; 15: 9392) "Downregulation of ROS1 enhances the therapeutic efficacy of arsenic trioxide in acute myeloid leukemia cell lines." Author(s):Li J PubMed Article URL:http://dx.doi.org/10.3892/ol.2018.8458
	71-2700 was used in Western Blotting to investigate the role of dynein 1 in supporting the transport of spermatids and organelles across the seminiferous epithelium during spermatogenesis.
Rat / 1:250	American journal of physiology. Endocrinology and metabolism (2018; 315: E924) "Dynein 1 supports spermatid transport and spermiation during spermatogenesis in the rat testis." Author(s):Wen Q,Tang EI,Lui WY,Lee WM,Wong CKC,Silvestrini B,Cheng CY PubMed Article URL:http://dx.doi.org/10.1152/ajpendo.00114.2018
	71-2700 was used in Western Blotting to elucidate the potential effects of miR-187-3p on gemcitabine sensitivity in the breast cancer cell line, MDA-MB-231 using reverse transcription quantitative-PCR, cell viability, flow cytometry, luciferase reporter assay and western blot analysis.
Human / 1:1000	Experimental and therapeutic medicine (2020; 20: 952) "miR-187-3p increases gemcitabine sensitivity in breast cancer cells by targeting FGF9 expression." Author(s):Wu Y,Tao L,Liang J,Qiao Y,Liu W,Yu H,Yu X,Liu L PubMed Article URL:http://dx.doi.org/10.3892/etm.2020.8770
Rat / 1:250	71-2700 was used in Western Blotting to suggest that besides as a monitor for Sertoli-germ cell junction integrity, testin is also an essential molecule to maintain Sertoli-Sertoli junctions.
	Journal of cellular physiology (2020; 235: 6127) "Testin regulates the blood-testis barrier via disturbing occludin/ZO-1 association and actin organization." Author(s):Su L,Wang Z,Xie S,Hu D,Cheng YC,Mruk DD,Guan Y PubMed Article URL:http://dx.doi.org/10.1002/jcp.29541
	71-2700 was used in western blot to assess the role of intercellular adhesion molecule-2 in the testis
Not Applicable / 1:250	The Journal of endocrinology (2013; 216: 73) "Intercellular adhesion molecule-2 is involved in apical ectoplasmic specialization dynamics during spermatogenesis in the rat." Author(s):Xiao X,Cheng CY,Mruk DD PubMed Article URL:http://dx.doi.org/10.1530/JOE-12-0434

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	71-2700 was used in immunocytochemistry and western blot to characterize disruption of the sertolic cell cytoskeleton by interleukin 1alpha and its affect on gap junctional communication
Not Applicable / 1:400	Cellular signalling (2016; 28: 469) Interleukin 1alpha-induced disruption of the Sertoli cell cytoskeleton affects gap junctional communication." Author(s):Chojnacka K,Bilinska B,Mruk DD PubMed Article URL:http://dx.doi.org/10.1016/j.cellsig.2016.02.003
	71-2700 was used in Western Blotting to suggest that Rab4A participates in adherens junction dynamics in the testis.
Rat / Not Cited	Journal of andrology (2007; 28: 742) "Rab4A GTPase catenin interactions are involved in cell junction dynamics in the testis." Author(s):Mruk DD,Lau AS,Sarkar O,Xia W PubMed Article URL:http://dx.doi.org/10.2164/jandrol.106.002204
	71-2700 was used in Western Blot to evaluate the molecular targets and signaling mechanisms of the Pinhead protein during Xenopus gastrulation.
Xenopus / Not Cited	iScience (2021; 24:) "Pinhead antagonizes Admp to promote notochord formation." Author(s):Itoh K,Ossipova O,Sokol SY PubMed Article URL:http://dx.doi.org/10.1016/j.isci.2021.102520
Rat / 1:200	Journal of cell science (2014; 127: 4870) "rpS6 regulates blood-testis barrier dynamics through Akt-mediated effects on MMP-9." Author(s):Mok KW,Mruk DD,Cheng CY PubMed Article URL:http://dx.doi.org/10.1242/jcs.152231
Rat / 1:125	Proceedings of the National Academy of Sciences of the United States of America (2012; 109: 12562) "Focal adhesion kinase-Tyr407 and -Tyr397 exhibit antagonistic effects on blood-testis barrier dynamics in the rat." Author(s):Lie PP,Mruk DD,Mok KW,Su L,Lee WM,Cheng CY
	PubMed Article URL:http://dx.doi.org/10.1073/pnas.1202316109 71-2700 was used in Western Blotting to study the mechanism of laminin 2-mediated regulation in Sertoli cell blood-testes
	barrier dynamics.
Rat / 1:250	Endocrinology (2017; 158: 963) "Basement Membrane Laminin 2 Regulation of BTB Dynamics via Its Effects on F-Actin and Microtubule Cytoskeletons Is Mediated Through mTORC1 Signaling." Author(s):Gao Y,Chen H,Lui WY,Lee WM,Cheng CY PubMed Article URL:http://dx.doi.org/10.1210/en.2016-1630
	71-2700 was used in western blot to elucidate how c-Yes regulates the blood-testis barrier and apical ectoplasmic specialization integrity.
Rat / 1:250 Rat / 1:250	The international journal of biochemistry & cell biology (2011; 43: 651) "c-Yes regulates cell adhesion at the blood-testis barrier and the apical ectoplasmic specialization in the seminiferous epithelium of rat testes." Author(s):Xiao X,Mruk DD,Lee WM,Cheng CY PubMed Article URL:http://dx.doi.org/10.1016/j.biocel.2011.01.008
	71-2700 was used in immunohistochemistry and western blot to study the role of plastin 3 in ectoplasmic specialization dynamics during spermatogenesis in the rat testis
	FASEB journal : official publication of the Federation of American Societies for Experimental Biology (2015; 29: 3788) "Actin-bundling protein plastin 3 is a regulator of ectoplasmic specialization dynamics during spermatogenesis in the rat testis." Author(s):Li N,Mruk DD,Wong CK,Lee WM,Han D,Cheng CY PubMed Article URL:http://dx.doi.org/10.1096/fj.14-267997
Human / 1:1,000	71-2700 was used in Western Blotting to investigate the clinical significance and biological function of Deltex-3-like in human glioma.
	International journal of molecular medicine (2017; 40: 491) "DTX3L is upregulated in glioma and is associated with glioma progression." Author(s):Xu P,Tao X,Zhao C,Huang Q,Chang H,Ban N,Bei Y,Xia X,Shen C,Wang K,Xu L,Wu P,Ren J,Wang D PubMed Article URL:http://dx.doi.org/10.3892/ijmm.2017.3023
	71-2700 was used in Western Blotting to extend the "adenoma-carcinoma" model and identify microbes such as F. nucleatum as cancer "facilitators".
Human / 1:2000	EMBO reports (2019; 20:) "<i>Fusobacterium nucleatum</i> promotes colorectal cancer by inducing Wnt/-catenin modulator Annexin A1." Author(s):Rubinstein MR,Baik JE,Lagana SM,Han RP,Raab WJ,Sahoo D,Dalerba P,Wang TC,Han YW PubMed Article URL:http://dx.doi.org/10.15252/embr.201847638

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	71-2700 was used in western blot to identify genes that contribute to primary mouth anlage
Not Applicable / Not Cited	Development (Cambridge, England) (2009; 136: 1071) "The Wnt antagonists Frzb-1 and Crescent locally regulate basement membrane dissolution in the developing primary mouth." Author(s):Dickinson AJ,Sive HL PubMed Article URL:http://dx.doi.org/10.1242/dev.032912
3 ChIP assay References	
Species / Dilution	Summary
	71-2700 was used in ChIP assay to conclude that -catenin's direct transcriptional role is restricted to the induction of NPCs, where rising -catenin levels switch inhibitory TCF7L1/TCF7L2 complexes to activating LEF1/TCF7 complexes at primed gene targets poised for rapid initiation of a nephrogenic program.
Mouse / 1:200	eLife (2021; 10:) "A -catenin-driven switch in TCF/LEF transcription factor binding to DNA target sites promotes commitment of mammalian nephron progenitor cells." Author(s):Guo Q,Kim A,Li B,Ransick A,Bugacov H,Chen X,Lindström N,Brown A,Oxburgh L,Ren B,McMahon AP PubMed Article URL:http://dx.doi.org/10.7554/eLife.64444
	71-2700 was used in Chromatin immunoprecipitation to determine the roles and interactions of Sox2, Brachyury and Tbx6 in neuro-mesodermal progenitor potency and lineage choice.
Mouse / Not Cited	Developmental cell (2017; 42: 514) "Antagonistic Activities of Sox2 and Brachyury Control the Fate Choice of Neuro-Mesodermal Progenitors." Author(s):Koch F,Scholze M,Wittler L,Schifferl D,Sudheer S,Grote P,Timmermann B,Macura K,Herrmann BG PubMed Article URL:http://dx.doi.org/10.1016/j.devcel.2017.07.021
	71-2700 was used in Chromatin immunoprecipitation to reveal EHMT2 as a critical regulator of Wnt signaling, implicating Ehmt2 as a potential target in lung cancer and other AT2-mediated lung pathologies.
Human / Not Cited	eLife (2022; 11:) "EHMT2 methyltransferase governs cell identity in the lung and is required for KRAS ^{G12D} tumor development and propagation." Author(s):Pribluda A,Daemen A,Lima AN,Wang X,Hafner M,Poon C,Modrusan Z,Katakam AK,Foreman O,Eastham J, Hung J,Haley B,Garcia JT,Jackson EL,Junttila MR PubMed Article URL:http://dx.doi.org/10.7554/eLife.57648
1 Immunohistochemistry (Paraffin) References
Species / Dilution	Summary
	71-2700 was used in immunohistochemistry - paraffin section to study an in vitro model for tumor progression modeling and drug screening by using a reductionist metastasis-on-a-chip platform
Not Applicable / 1:200	Biotechnology and bioengineering (2016; 113: 2020) "A reductionist metastasis-on-a-chip platform for in vitro tumor progression modeling and drug screening." Author(s):Skardal A,Devarasetty M,Forsythe S,Atala A,Soker S PubMed Article URL:http://dx.doi.org/10.1002/bit.25950
2 Immunoprecipitation Ref	erences
Species / Dilution	Summary
	71-2700 was used in Immunoprecipitation to conclude that the carboxyl-terminal domain of Cx43 is involved in regulating the localization, number and size of Cx43 plaques in vivo.
Mouse / Not Cited	Circulation research (2007; 101: 1283) "C-terminal truncation of connexin43 changes number, size, and localization of cardiac gap junction plaques." Author(s):Maass K,Shibayama J,Chase SE,Willecke K,Delmar M PubMed Article URL:http://dx.doi.org/10.1161/CIRCRESAHA.107.162818
	71-2700 was used in immunoprecipitation to examine the role of actin and tubulin in ectoplasmic specialization
Not Applicable / 1:50	Spermatogenesis (2012; 2: 117) "Microtubule affinity-regulating kinase 4 (MARK4) is a component of the ectoplasmic specialization in the rat testis." Author(s):Tang EI,Xiao X,Mruk DD,Qian XJ,Mok KW,Jenardhanan P,Lee WM,Mathur PP,Cheng CY PubMed Article URL:http://dx.doi.org/10.4161/spmg.20724
3 Miscellaneous PubMed F	References
Species / Dilution	Summary

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	71-2700 was used in immunohistochemistry - frozen section to assess the use of connexin-43 monoclonal antibodies
Rat / Not Cited	Bulletin of experimental biology and medicine (2009; 148: 725) "Immunofluorescent analysis of connexin-43 using monoclonal antibodies to its extracellular domain." Author(s):Baklaushev VP,Gurina OI,Yusubalieva GM,Grinenko NF,Cytrin EB,Victorov IV,Chekhonin VP PubMed Article URL:http://dx.doi.org/10.1007/s10517-010-0802-x
	71-2700 was used in immunohistochemistry, immunoprecipitation, and western blot to test if flutamide-induced androgen deficiency during mid- and late pregnancy alters luteal expression of adherens junction protein, beta-catenin, and E-cadherin
Pig / 1:400	Histology and histopathology (2015; 30: 1341) "Flutamide alters -catenin expression and distribution, and its interactions with E-cadherin in the porcine corpus luteum of mid- and late pregnancy." Author(s):Grzesiak M,Mitan A,Janik ME,Knapczyk-Stwora K,Slomczynska M PubMed Article URL:http://dx.doi.org/10.14670/HH-11-630
	71-2700 was used in immunocytochemistry to study the differentiation and transformation of canine kidney MDCK cells cultured in either a 2D or 3D environment
Dog / Not Cited	Laboratory investigation; a journal of technical methods and pathology (2010; 90: 915) "Different responses in transformation of MDCK cells in 2D and 3D culture by v-Src as revealed by microarray techniques, RT-PCR and functional assays." Author(s):Töyli M,Rosberg-Kulha L,Capra J,Vuoristo J,Eskelinen S PubMed Article URL:http://dx.doi.org/10.1038/labinvest.2010.63
4 Immunohistochemistry (F	rozen) References
Species / Dilution	Summary
	71-2700 was used in immunohistochemistry - frozen section to study regulation of the blood-testis barrier
Not Applicable / 1:100	Journal of cellular physiology (2005; 205: 141) "Disruption of Sertoli-germ cell adhesion function in the seminiferous epithelium of the rat testis can be limited to adherens junctions without affecting the blood-testis barrier integrity: an in vivo study using an androgen suppression model." Author(s):Xia W,Wong CH,Lee NP,Lee WM,Cheng CY PubMed Article URL:http://dx.doi.org/10.1002/jcp.20377
	71-2700 was used in immunohistochemistry - frozen section to show that the cadherin/catenin complex is present between Sertoli and germ cells and is used for the assembly of functional adheren junctions.
Rat / Not Cited	Biology of reproduction (2003; 68: 489) "Is the cadherin/catenin complex a functional unit of cell-cell actin-based adherens junctions in the rat testis?" Author(s):Lee NP,Mruk D,Lee WM,Cheng CY PubMed Article URL:http://dx.doi.org/10.1095/biolreprod.102.005793
	71-2700 was used in immunohistochemistry - frozen section to test if TGF-beta3 regulates anchoring junction dynamics in the blood-testis barrier
Not Applicable / 1:100	Developmental biology (2005; 280: 321) "TGF-beta3 regulates anchoring junction dynamics in the seminiferous epithelium of the rat testis via the Ras /ERK signaling pathway: An in vivo study." Author(s):Xia W,Cheng CY PubMed Article URL:http://dx.doi.org/10.1016/j.ydbio.2004.12.036
	71-2700 was used in immunohistochemistry - frozen section to test if Cd affects cadherin-dependent junctions in the proximal tubule epithelium in vivo.
Rat / Not Cited	Toxicology and applied pharmacology (2003; 189: 180) "Cadmium alters the localization of N-cadherin, E-cadherin, and beta-catenin in the proximal tubule epithelium." Author(s):Prozialeck WC,Lamar PC,Lynch SM PubMed Article URL:http://dx.doi.org/10.1016/s0041-008x(03)00130-3

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