

Pan-cadherin Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Chicken, Human, Mouse, Non-human primate, Rat, Xenopus
Published Species	Dog, Rat, Bovine, Mouse, Human
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the carboxy-terminus of the chicken N-cadherin protein.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533992

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1-2 µg/mL	4 Publications
Miscellaneous PubMed (MISC)	-		2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:100	1 Publication
Immunofluorescence (IF)	✓	2.5 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1:400	1 Publication
ELISA (ELISA)	✓	Assay Dependent	
Immunocytochemistry (ICC)	✓	2-3 µg/mL	

Product Specific Information

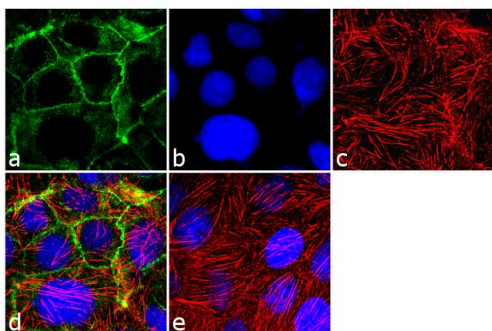
This peptide antibody is broadly cross-reactive with all members of the cadherin family of proteins including N-cadherin, E-cadherin, P-cadherin, and R-cadherin. The antibody also displays broad species cross-reactivity including human, bovine, mouse, rat, chicken, amphibian, as well as other species. Rabbit anti-pan-Cadherin is useful as both a ubiquitous cadherin probe as well as a marker for adherens junctions.

71-7100 was used successfully in the immunofluorescence analysis of pan cadherin in MDCK cells.

Product Images For Pan-cadherin Polyclonal Antibody

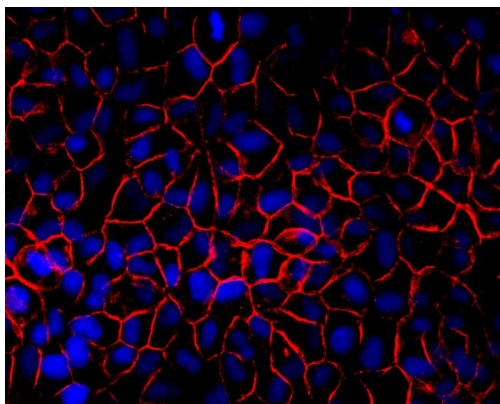
Pan-cadherin Antibody (71-7100) in IF

Immunofluorescence analysis of Pan-Cadherin was performed using 90% confluent log phase Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Cadherin pan Rabbit Polyclonal Antibody (Product # 71-7100) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cell junctional localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



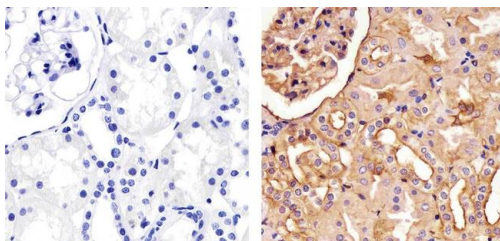
Pan-cadherin Antibody (71-7100) in IF

Immunofluorescent detection of pan cadherin in MDCK cells. Confluent monolayers were fixed in 50%methanol/50%Acetone, blocked for at least 30 minutes in 1% BSA then incubated 2 hours with a pan cadherin antibody (Product # 71-7100) at 2.5 µg /mL, washed, then incubated 1 hour with Alexa Fluor 594 conjugated Donkey anti-Rabbit secondary antibody (Product # A-21207) at 1:2000 dilution. Cells were counterstained with DAPI (blue). Coverslips were mounted with Prolong Gold Antifade reagent (Product # P36930) and imaged at 40X. Images generated by Joell Solan in Paul Lampe Lab at the Fred Hutchinson cancer Research Center.



Pan-cadherin Antibody (71-7100) in IHC (P)

Immunohistochemistry analysis of Cadherin pan showing staining in the membrane and also weakly in the cytoplasm of paraffin-embedded human kidney 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 Anti- Cadherin pan Polyclonal Antibody (Product # 71-7100) 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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Western Blot (4)

International journal of nanomedicine

Diamond, graphite, and graphene oxide nanoparticles decrease migration and invasiveness in glioblastoma cell lines by impairing extracellular adhesion.

"Published figure using Pan-cadherin polyclonal antibody (Product # 71-7100) in Western Blot"

Authors: Wierzbicki M, Jaworski S, Kutwin M, Grodzik M, Strojny B, Kurantowicz N, Zdunek K, Chodun R, Chwalibog A, Sawosz E

Species
Not Applicable

Dilution
Not Cited

Year
2018

Journal of proteomics and bioinformatics

Proteomic Analysis of Vascular Endothelial Cells-Effects of Laminar Shear Stress and High Glucose.

"71-7100 was used in western blot to investigate the effects of glucose and shear stress using bovine aortic endothelial cells"

Authors: Wang XL, Fu A, Spiro C, Lee HC

Species
Bovine
Not Applicable

Dilution
1:250
Not Cited

Year
2009

[View more WB references on thermofisher.com](#)

Miscellaneous PubMed (2)

Laboratory investigation; a journal of technical methods and pathology

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.

"71-7100 was used in immunocytochemistry and western blot to study the differentiation and transformation of canine kidney MDCK cells cultured in either a 2D or 3D environment"

Authors: Töyli M, Rosberg-Kulha L, Capra J, Vuoristo J, Eskelinen S

Species
Dog

Dilution
Not Cited

Year
2010

Bulletin of experimental biology and medicine

Immunofluorescent analysis of connexin-43 using monoclonal antibodies to its extracellular domain.

"71-7100 was used in immunohistochemistry - frozen section to assess the use of connexin-43 monoclonal antibodies"

Authors: Baklaushv VP, Gurina OI, Yusbaliyeva GM, Grinenko NF, Cytrin EB, Victorov IV, Chekhonin VP

Species
Rat

Dilution
Not Cited

Year
2009

More applications with references on thermofisher.com

IHC (P) (1)

IF (1)

IHC (1)

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