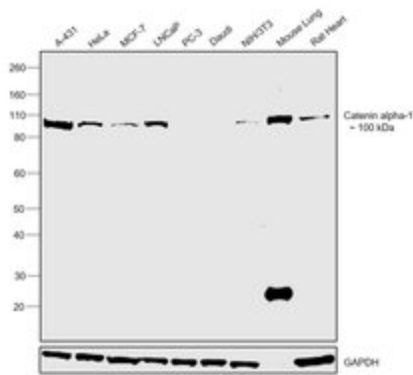


alpha Catenin Monoclonal Antibody (alpha-CAT-7A4)

Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Rat, Xenopus
Published Species	Dog, Rat, Bovine, Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	alpha-CAT-7A4
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminus of mouse alpha-catenin.
Form	Liquid
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533044

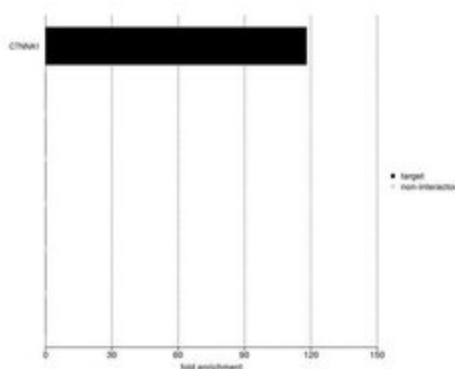
Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Flow Cytometry (Flow)	3-5 µg/1x10 ⁶ cells	-
Immunocytochemistry (ICC)	1:250	6 Publications
Immunofluorescence (IF)	1:250	7 Publications
Immunohistochemistry (IHC)	Assay Dependent	6 Publications
Immunoprecipitation (IP)	Assay Dependent	-
Western Blot (WB)	1:250	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	4 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Advanced Verification Data



alpha Catenin Antibody (13-9700)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of alpha Catenin was observed in A-431, HeLa, MCF-7, LNCaP in comparison to PC-3 and Daudi using Anti-alpha Catenin Monoclonal Antibody (alpha-CAT-7A4) (Product # 13-9700) in Western Blot. Relative expression validation info.



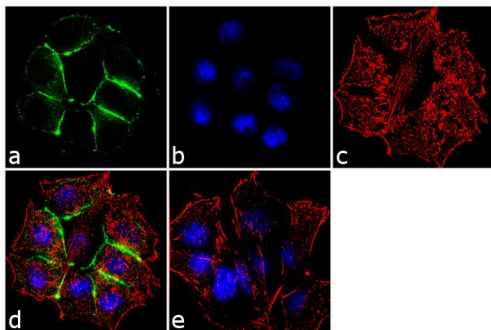
alpha Catenin Antibody (13-9700)

IP-MS enrichment of CTNNA1 (LFQ intensity): CTNNA1 was enriched 118-fold from HEPG2 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and CTNNA1 antibody (Product # 13-9700). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. IP-MS validation info.

Product Images For alpha Catenin Monoclonal Antibody (alpha-CAT-7A4)

alpha Catenin Antibody (13-9700) in IF

Immunofluorescent analysis of alpha Catenin was performed using 90% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with alpha Catenin (alpha-CAT-7A4) Mouse Monoclonal Antibody (Product # 13-9700) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) 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 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.



View more figures on thermofisher.com

34 References

Immunocytochemistry (6)

Biosensors

Real-Time Measurement of Melanoma Cell-Mediated Human Brain Endothelial Barrier Disruption Using Electric Cell-Substrate Impedance Sensing Technology.

"13-9700 was used in Immunocytochemistry to study the kinetics of human melanoma cell invasion across human brain endothelium."

Authors: Anchan A,Kalogirou-Baldwin P,Johnson R,Kho DT,Joseph W,Hucklesby J,Finlay GJ,O'Carroll SJ,Angel CE, Graham ES

Species
Human

Dilution
1:100

Year
2019

Cell and tissue research

The cell-cell junctions of mammalian testes: II. The lamellar smooth muscle monolayer cells of the peritubular wall are laterally connected by vertical adherens junctions-a novel architectonic cell-cell junction system.

"13-9700 was used in Immunocytochemistry-immunofluorescence to show the LSMCs of the peritubular wall monolayers are SMCs sensu stricto which are laterally connected by a novel architectonic system of arrays of vertical AJs located in overlapping cell protrusions."

Authors: Domke LM,Franke WW

Species
Bovine

Dilution
Not Cited

Year
2019

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

Immunofluorescence (7)

Cell and tissue research

The cell-cell junctions of mammalian testes: II. The lamellar smooth muscle monolayer cells of the peritubular wall are laterally connected by vertical adherens junctions-a novel architectonic cell-cell junction system.

"13-9700 was used in Immunocytochemistry-immunofluorescence to show the LSMCs of the peritubular wall monolayers are SMCs sensu stricto which are laterally connected by a novel architectonic system of arrays of vertical AJs located in overlapping cell protrusions."

Authors: Domke LM,Franke WW

Species
Bovine

Dilution
Not Cited

Year
2019

Biosensors

The Importance of Multifrequency Impedance Sensing of Endothelial Barrier Formation Using ECIS Technology for the Generation of a Strong and Durable Paracellular Barrier.

"13-9700 was used in Immunocytochemistry to demonstrate the application of electrical cell-substrate impedance sensing technology for measuring differences in the formation of a strong and durable endothelial barrier model."

Authors: Robilliard LD,Kho DT,Johnson RH,Anchan A,O'Carroll SJ,Graham ES

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2018

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More applications with references on thermofisher.com

[WB \(6\)](#) [IHC \(6\)](#) [Misc \(3\)](#) [IHC \(P\) \(4\)](#) [IHC \(F\) \(2\)](#)

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