

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

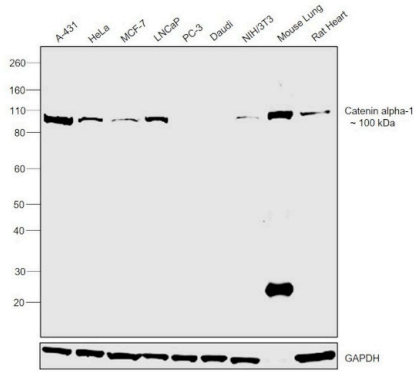
Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Rat, Xenopus
Published Species	Dog, Rat, Bovine, Zebrafish, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	alpha-CAT-7A4
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminus of mouse alpha-catenin.
Form	Liquid
Concentration	0.5 mg/mL
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
Western Blot (WB)	1:250	8 Publications
Immunohistochemistry (IHC)	Assay-dependent	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	1:250	13 Publications
Flow Cytometry (Flow)	3-5 µg/1x10^6 cells	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	3 Publications

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

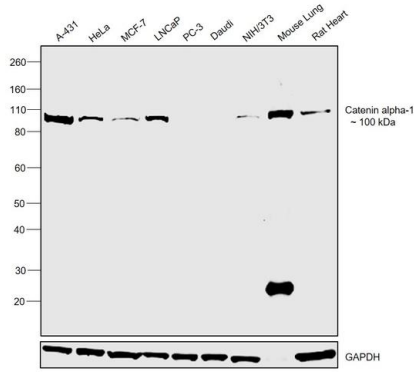
alpha Catenin Antibody (13-9700)

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. {RE}



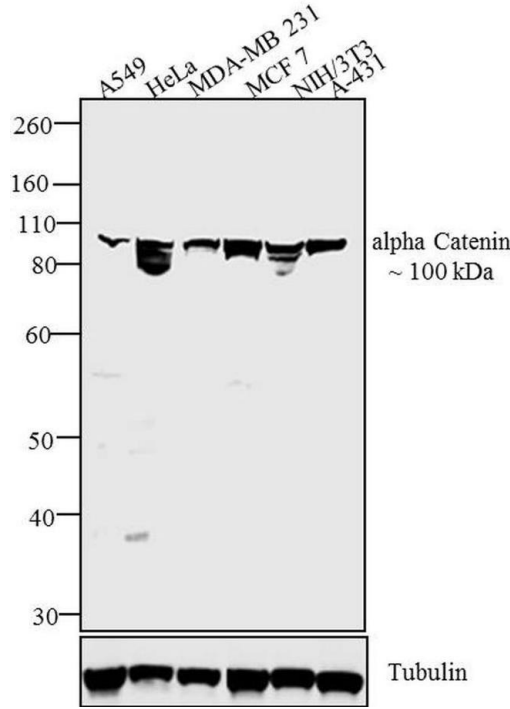
alpha Catenin Antibody (13-9700) in WB

Western blot was performed using Anti-alpha Catenin Monoclonal Antibody (alpha-CAT-7A4)(Product # 13-9700) and a 100kDa band corresponding to alpha Catenin was observed across cell lines and tissue extracts tested except PC-3 and Daudi which is reported to be negative. Whole cell extracts (30 µg lysate) of A-431 (Lane 1), HeLa (Lane 2), MCF7 (Lane 3), LNCaP (Lane 4), PC-3 (Lane 5), Daudi (Lane 6), NIH/3T3 (Lane 7) and tissue extracts of Mouse Lung (Lane 8) and Rat Heart (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1: 250 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



alpha Catenin Antibody (13-9700) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg) of A549 (Lane 1), HeLa (Lane 2), MDA-MB-231 (Lane 3), MCF7 (Lane 4), NIH/3T3 (Lane 5) and A-431 (Lane 6).The blots were probed with Anti-alpha Catenin Mouse Monoclonal Antibody (Product # 13-9700, 1:250 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A ~100 kDa band corresponding alpha Catenin was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane by Pierce™ Power Blotter System (22834). The membrane was probed with the relevant primary and secondary Antibody using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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Western Blot (8)

<p>Vascular biology (Bristol, England)</p> <p>Vinculin strengthens the endothelial barrier during vascular development.</p> <p>"13-9700 was used in Western Blotting to demonstrate that Vinculin strengthens the endothelial barrier and prevents vascular leakage in developing vessels."</p> <p>Authors: van der Stoel MM,Kotini MP,Schoon RM,Affolter M,Belting HG,Huveneers S</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Tissue barriers</p> <p>Vitamin D Receptor Deletion Leads to the Destruction of Tight and Adherens Junctions in Lungs.</p> <p>"13-9700 was used in Western Blotting to study the role of the vitamin D receptor in lung barrier integrity."</p> <p>Authors: Chen H,Lu R,Zhang YG,Sun J</p>	<p>Year 2019</p> <p>Species Mouse</p>

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Immunohistochemistry (8)

<p>Development (Cambridge, England)</p> <p>Ontogenesis of the tear drainage system requires Prickle1-driven polarized basement membrane deposition.</p> <p>"13-9700 was used in Immunohistochemistry to highlight a crucial role of Prickle1-mediated polarized basement membrane secretion and deposition in PTD elongation."</p> <p>Authors: Guo D,Ru J,Mao F,Ouyang H,Ju R,Wu K,Liu Y,Liu C</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:500</p>
<p>Journal of the peripheral nervous system : JPNS</p> <p>In situ molecular characterization of endoneurial microvessels that form the blood-nerve barrier in normal human adult peripheral nerves.</p> <p>"Published figure using alpha Catenin monoclonal antibody (Product # 13-9700) in Immunohistochemistry"</p> <p>Authors: Ouyang X,Dong C,Ubogu EE</p>	<p>Year 2019</p> <p>Species Human</p>

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More applications with references on thermofisher.com

- IHC (P) (4)
- IHC (F) (2)
- ICC/IF (13)
- Misc (3)

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