

N-cadherin Monoclonal Antibody (3B9)

Product Details

Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Pig, Rat
Published Species	Tag, Avian, Pig, Rat, Non-human primate, Hamster, Zebrafish, Human, Mouse, Rhesus monkey, Horse, Dog, Rabbit, C. elegans
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	3B9
Conjugate	Unconjugated
Immunogen	Recombinant domain corresponding to the intracellular domain of chicken N-Cadherin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2313779

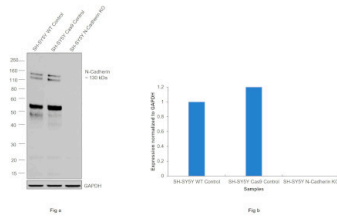
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	74 Publications
Immunohistochemistry (IHC)	-	59 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-5 µg/mL	28 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	8 Publications
Immunocytochemistry (ICC/IF)	1-3 µg/mL	32 Publications
Flow Cytometry (Flow)	-	2 Publications
Immunoprecipitation (IP)	3-5 µg	1 Publication
Affinity Purification (AP)	-	3 Publications
Miscellaneous PubMed (Misc)	-	18 Publications

Product Specific Information

This antibody is specific for N-cadherin and does not cross-react with other cadherin family members including P- and E-cadherins.

For IHC with this antibody use formalin-fixed, paraffin-embedded tissue and heat-induced epitope retrieval.

Product Images For N-cadherin Monoclonal Antibody (3B9)

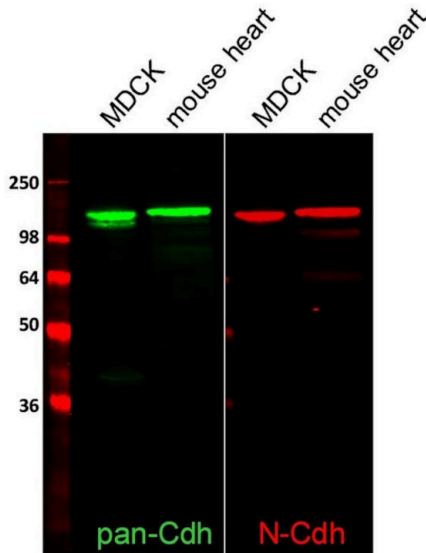


N-cadherin Antibody (33-3900)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in N-Cadherin KO cell line compared to control cell line using N-cadherin Monoclonal Antibody (3B9) (Product # 33-3900). {KO}

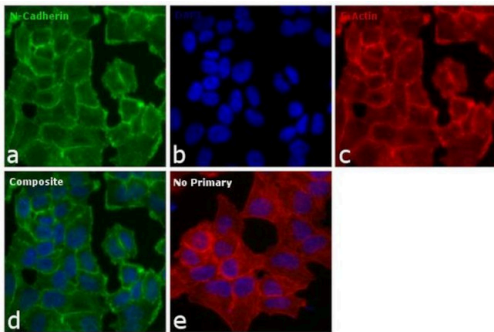
N-cadherin Antibody (33-3900)

Antibody specificity was demonstrated using two independent antibodies against the target protein. Western blot of N-Cadherin using N-cadherin Monoclonal Antibody (Product # 33-3900), tested in parallel with Pan-cadherin Polyclonal Antibody (Product # 71-7100), showing a similar expression pattern for N-cadherin across different test samples. {IAV}



N-cadherin Antibody (33-3900) in ICC/IF

Immunofluorescent analysis of N-Cadherin was done on 70% confluent log phase Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes; permeabilized with 0.25% Triton™ X-100 for 10 minutes followed by blocking with 5% BSA for 1 hour at room temperature. The cells were incubated with N-Cadherin Mouse Monoclonal Antibody (Product # 33-3900) at 1 µg - 2 µg in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor® 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938) and cytoskeletal F-actin (red) staining using Rhodamine Phalloidin (Product # R415, 1:300) panel c. Panel d is a merged image showing cell junctional localization of N-Cadherin. Panel e shows no primary antibody. The images were captured at 20X magnification.



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Western Blot (74)

Molecular biology of the cell

Unveiling epithelial plasticity regulation in lung cancer: Exploring the cross-talk among Tks4 scaffold protein partners.

"33-3900 was used in Immunocytochemistry-immunofluorescence to study a recently described epithelial-to-mesenchymal transition-regulating protein, Tks4, and explore its potential as a prognostic biomarker in non-small cell lung cancer."

Authors: László L,Kurilla A,Tilajka Á,Pancsa R,Takács T,Novák J,Buday L,Vas V

Year
2024

Species
C. elegans

Genesis (New York, N.Y. : 2000)

CircSCNN1A inhibits the proliferation, migration and invasion of renal cell carcinoma cells by decreasing CLDN8 expression through miR-590-5p.

"33-3900 was used in Western Blotting to elucidate the precise function and underlying mechanism of circSCNN1A in renal cell carcinoma progression."

Authors: Guo T,Xiong W,Liu C,Zhu L,Xie L

Year
2024

Species
Human

Dilution
1:1,000

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

Immunohistochemistry (59)

Scientific reports

Differential analysis of histopathological and genetic markers of cancer aggressiveness, and survival difference in EBV-positive and EBV-negative prostate carcinoma.

"33-3900 was used in Immunohistochemistry to investigate the differential expression of key oncogenes, EMT-associated genes, and PCa-specific oncomiRs, in EBV-positive and -negative tissues, using the qPCR array."

Authors: Ahmed K,Sheikh A,Fatima S,Ghulam T,Haider G,Abbas F,Sarria-Santamera A,Ghias K,Mughal N,Abidi SH

Year
2024

Species
C. elegans

Dilution
1:50

The Journal of general physiology

Remodeled connexin 43 hemichannels alter cardiac excitability and promote arrhythmias.

"33-3900 was used in Immunohistochemistry-immunofluorescence to support the notion that opening of remodeled Cx43 hemichannels, regardless of the type of cardiomyopathy, is sufficient to mediate cardiac-stress-induced arrhythmogenicity."

Authors: Lillo MA,Muñoz M,Rhana P,Gaul-Muller K,Quan J,Shirokova N,Xie LH,Santana LF,Fraidenraich D,Contreras JE

Year
2023

Species
C. elegans

Dilution
1:400

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

IHC (P) (28)

IHC (F) (8)

ICC/IF (32)

Flow (2)

IP (1)

AP (3)

Misc (18)

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