Anti-Notch1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013201

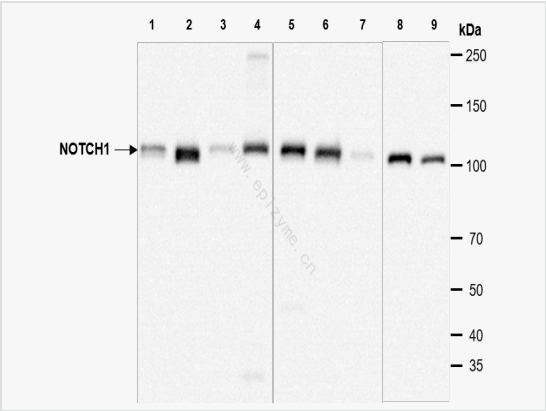
Product Information

Application	WB, ELISA, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Rat, Human, Mouse
Dilution	WB 1:5,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	45L46M54
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Notch1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Notch1 antibody [45L46M54] is for research use only and not for use in diagnostic or therapeutic procedures.

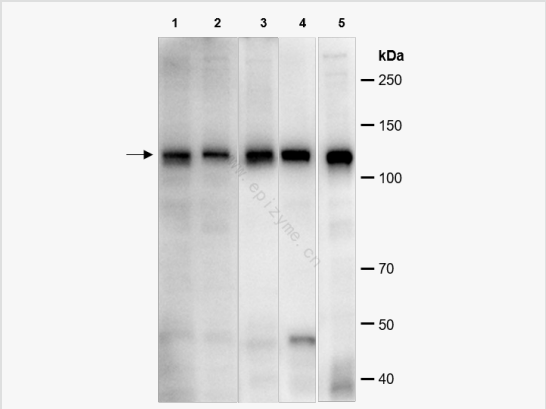
Protein Information

Synonyms	NOTCH1, TAN1, Neurogenic locus notch homolog protein 1, Notch 1, hN1, Translocation-associated notch protein TAN-1.
Calculated MW	Calculated MW: 272 kDa; Observed MW: 120 kDa
Uniprot ID	P46531
Gene ID	4851
Background	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting.

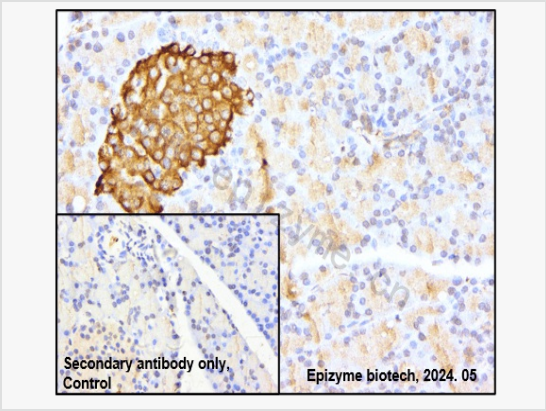
Validation Images



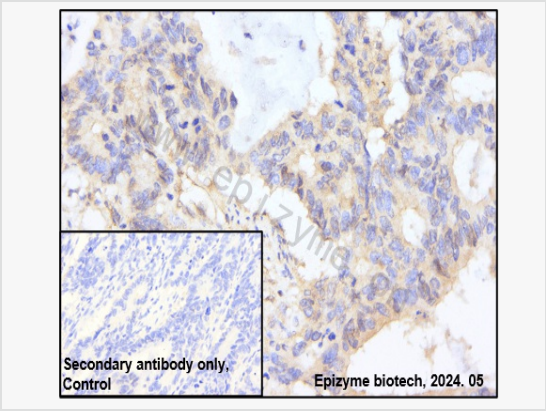
Western Blot - Anti-Notch1 Rabbit mAb [45L46M54]
All lanes: R013201 at 1:5,000 dilution
Lane 1: A431 (human epidermoid carcinoma cell line) whole cell lysates
Lane 2: C2C12 (mouse myoblasts epithelial cell) whole cell lysates
Lane 3: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 4: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: U2OS (human osteosarcoma epithelial cell) whole cell lysates
Lane 6: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 7: Rat kidney whole tissue lysates
Lane 8: Balb/c mouse liver whole tissue lysates
Lane 9: Balb/c mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 272 kDa
Observed band size: 120 kDa
Developed using the ECL technique (Cat. No. SQ201).



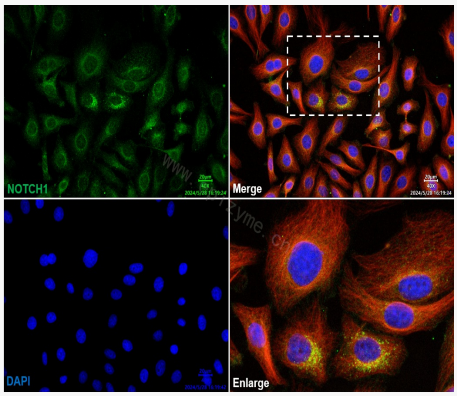
Western Blot - Anti-Notch1 Rabbit mAb [45L46M54]
All lanes: R013201 at 1:1,000 dilution
Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 3: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 4: Rat brain whole tissue lysates
Lane 5: Balb/c mouse lung whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 272 kDa
Observed band size: 120 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Notch1 Rabbit mAb [45L46M54]
Sample: Paraformaldehyde-fixed, paraffin embedded rat pancreas tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013201 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Notch1 Rabbit mAb [45L46M54]
Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013201 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Notch1 Rabbit mAb [45L46M54]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013201 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).