

Product datasheet for **CF500248**

NOTCH1 Mouse Monoclonal Antibody [Clone ID: OTI4C9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4C9
Applications:	IHC, WB
Recommended Dilution:	WB 1:1000, IHC: 1:50-1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant protein expressed in E.coli corresponding to amino acids 2300-2556 of human NOTCH1
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	270.6 kDa
Gene Name:	Homo sapiens notch receptor 1 (NOTCH1), mRNA.
Database Link:	NP_060087 Entrez Gene 18128 Mouse Entrez Gene 25496 Rat Entrez Gene 4851 Human P46531



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Background:

Notch1 is a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play multiple roles during development

Synonyms:

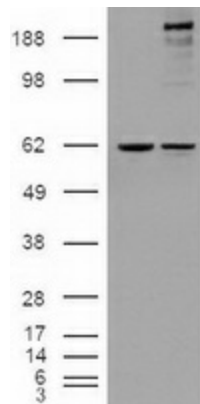
AOS5; AOVD1; hN1; TAN1

Protein Families:

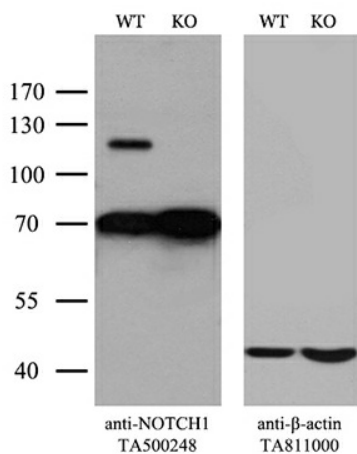
Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway

Protein Pathways:

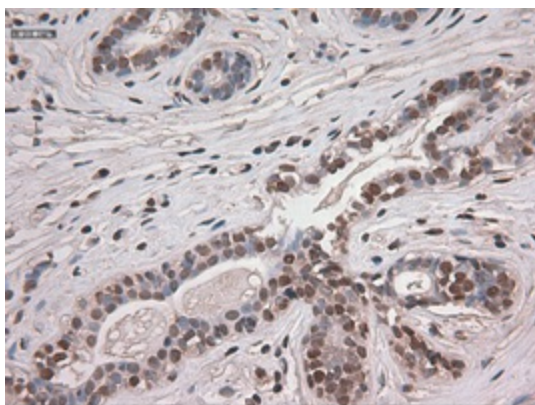
Dorso-ventral axis formation, Notch signaling pathway, Prion diseases

Product images:

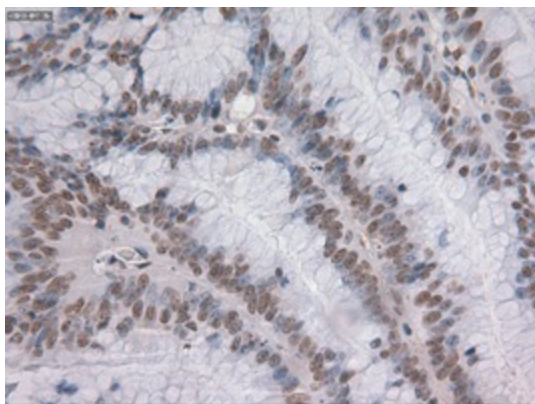
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NOTCH1 ([RC211365], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NOTCH1. Positive lysates [LY402602] (100ug) and [LC402602] (20ug) can be purchased separately from OriGene.



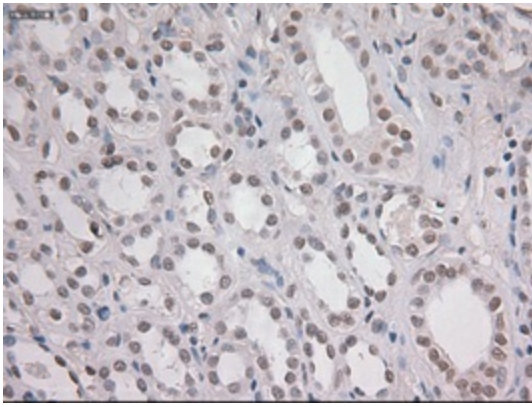
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NOTCH1-Knockout HeLa cells (KO, Cat# [LC810153]) were separated by SDS-PAGE and immunoblotted with anti-NOTCH1 monoclonal antibody TA500248. Then the blotted membrane was stripped and reprobed with anti-β-actin antibody ([TA811000]) as a loading control (1:500).



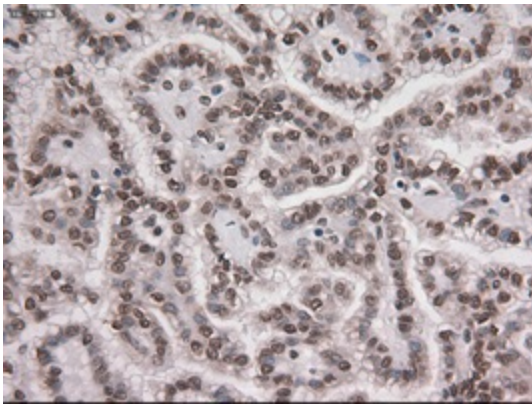
Immunohistochemical staining of paraffin-embedded breast tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



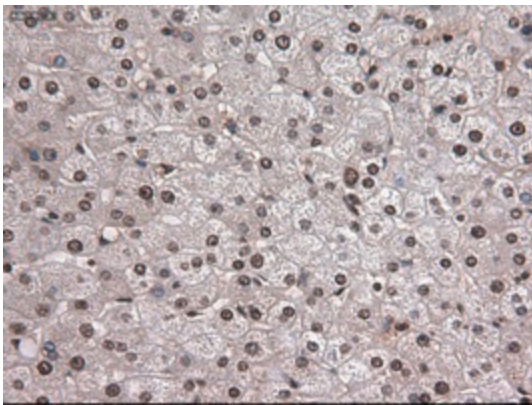
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



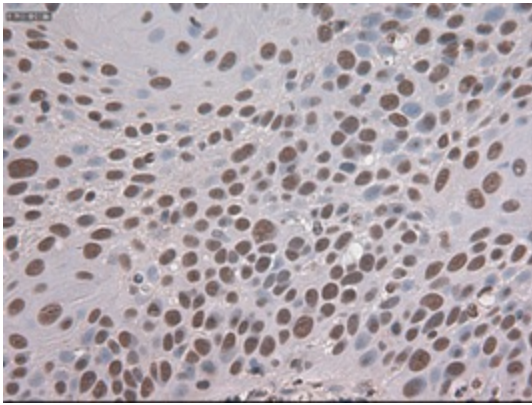
Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



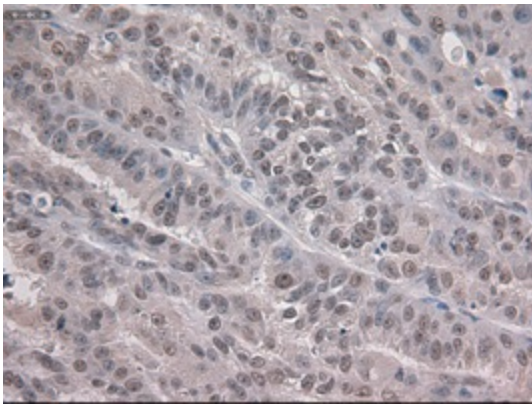
Immunohistochemical staining of paraffin-embedded Carcinoma of kidney tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



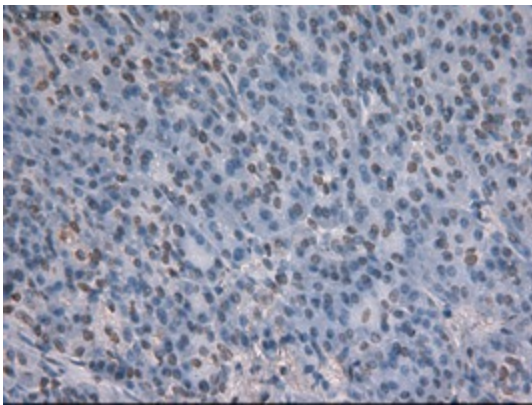
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



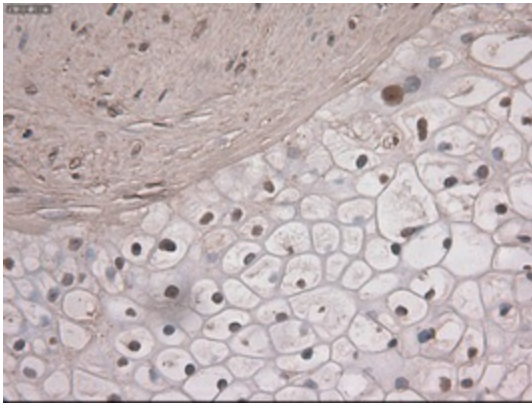
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



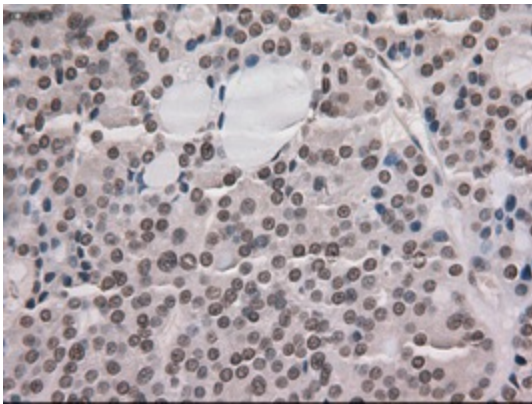
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



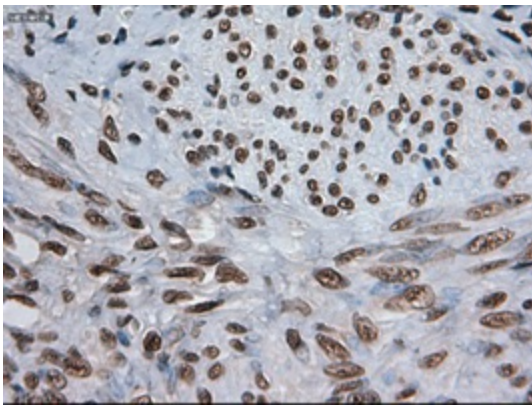
Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



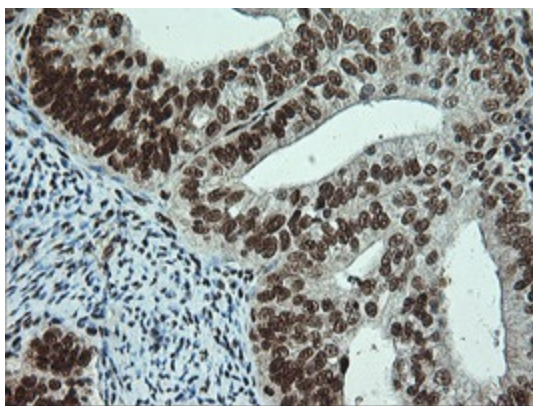
Immunohistochemical staining of paraffin-embedded Carcinoma of pancreas tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



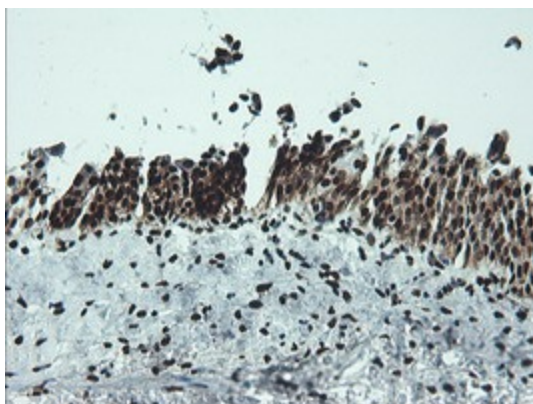
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



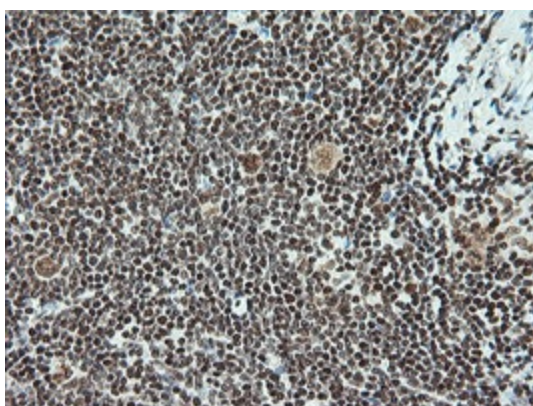
Immunohistochemical staining of paraffin-embedded endometrium tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500248], Dilution 1:50)



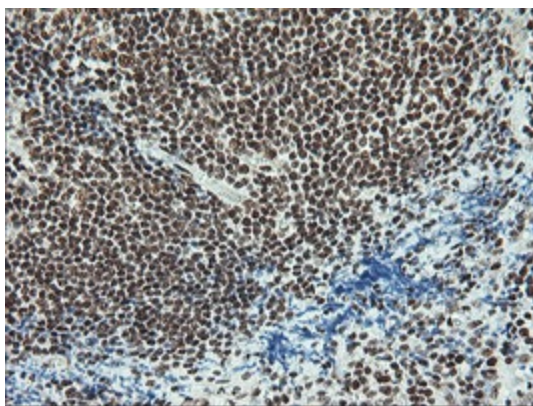
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-NOTCH1 mouse monoclonal antibody. ([TA500248])



Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. ([TA500248])



Immunohistochemical staining of paraffin-embedded Human Lymphoma tissue using anti-NOTCH1 mouse monoclonal antibody. ([TA500248])



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-NOTCH1 mouse monoclonal antibody. ([TA500248])