

## Product datasheet for **CF500248**

### **NOTCH1 Mouse Monoclonal Antibody [Clone ID: OTI4C9]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI4C9
<b>Applications:</b>	IHC, WB
<b>Recommend Dilution:</b>	WB 1:1000, IHC: 1:50-1:150
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Recombinant protein expressed in E.coli corresponding to amino acids 2300-2556 of human NOTCH1
<b>Formulation:</b>	PBS (pH7.3), 8% Trehalose
<b>Reconstitution Method:</b>	Reconstitute with PBS (pH7.3). To use this carrier-free antibody for conjugation experiment, we strongly recommend you to perform another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from cell culture supernatant by affinity chromatography
<b>Predicted Protein Size:</b>	270.6 kDa
<b>Gene Name:</b>	Homo sapiens notch receptor 1 (NOTCH1), mRNA.
<b>Database Link:</b>	<a href="#">NP_060087 Entrez Gene 4851 Human</a>



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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:**

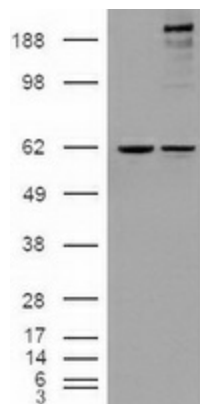
AOS5; AOVD1; hN1; TAN1

**Protein Families:**

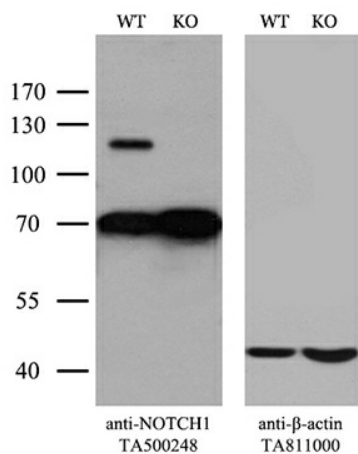
Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway

**Protein Pathways:**

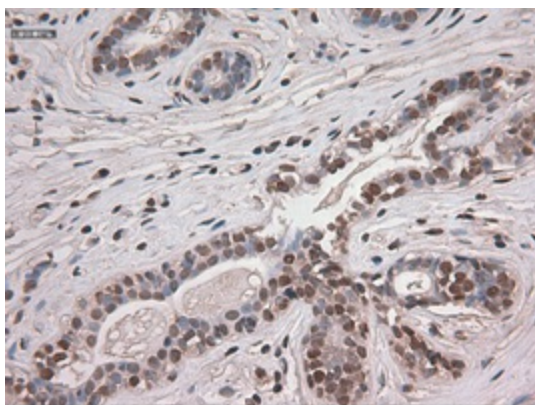
Dorso-ventral axis formation, Notch signaling pathway, Prion diseases

**Product images:**

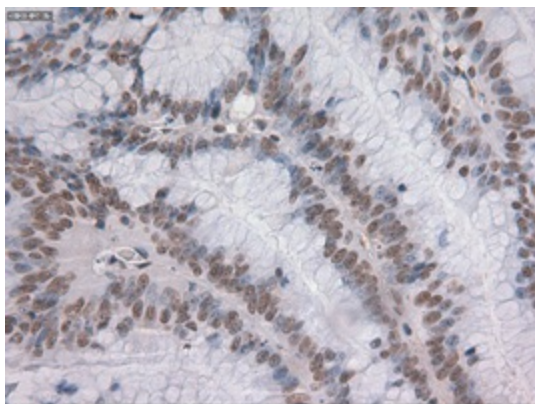
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NOTCH1 (RC211365, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NOTCH1. Positive lysates LY402602 (100ug) and LC402602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



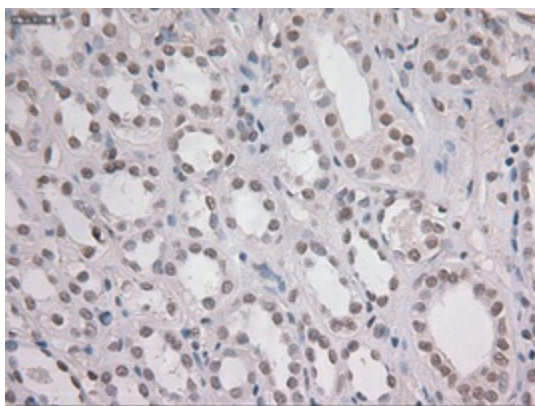
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NOTCH1-Knockout HeLa cells (KO, Cat# LC810153) were separated by SDS-PAGE and immunoblotted with anti-NOTCH1 monoclonal antibody TA500248. Then the blotted membrane was stripped and reprobed with anti-b-actin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



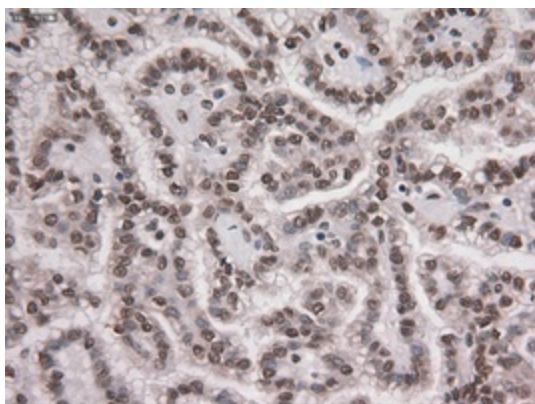
Immunohistochemical staining of paraffin-embedded breast tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



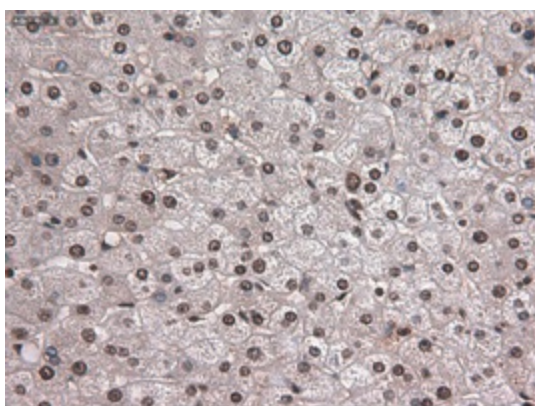
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



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)

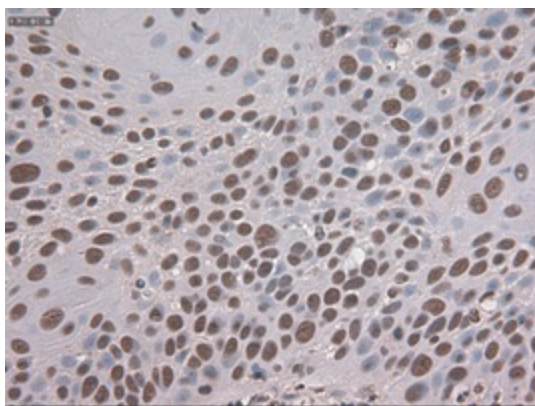


Immunohistochemical staining of paraffin-embedded Carcinoma of kidney tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)

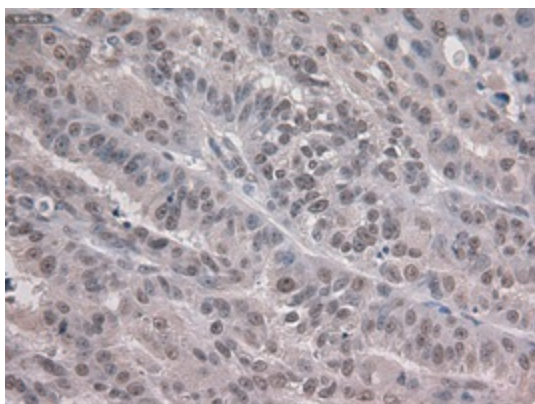


Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)

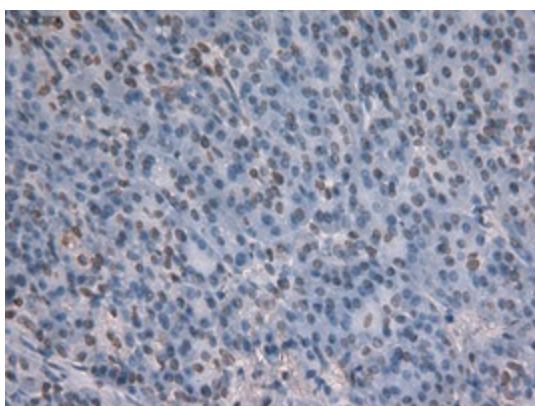




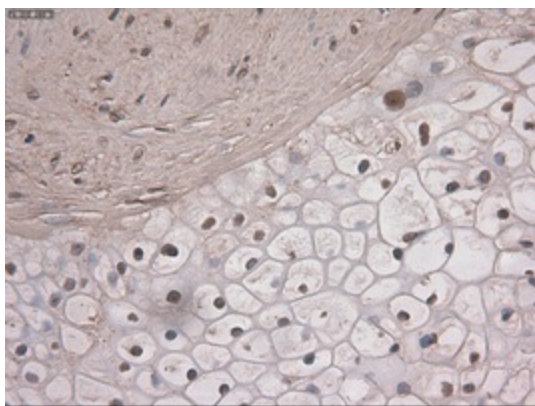
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



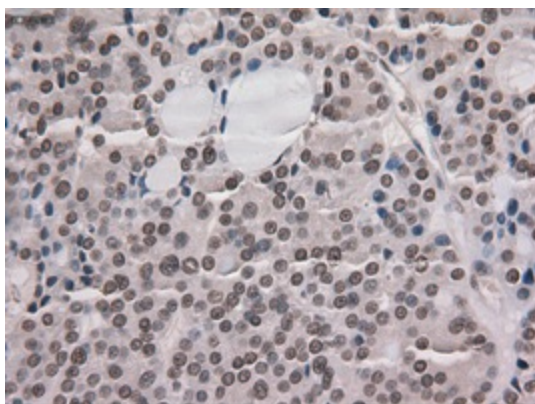
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



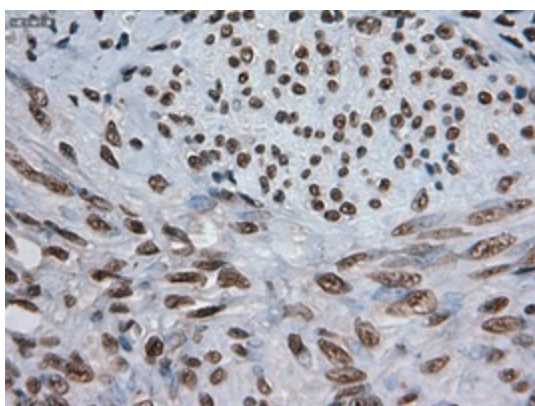
Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



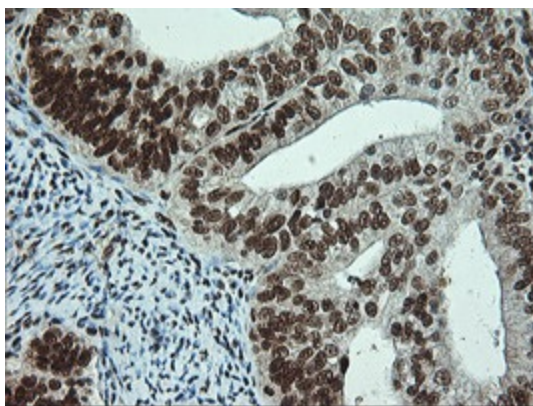
Immunohistochemical staining of paraffin-embedded Carcinoma of pancreas tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



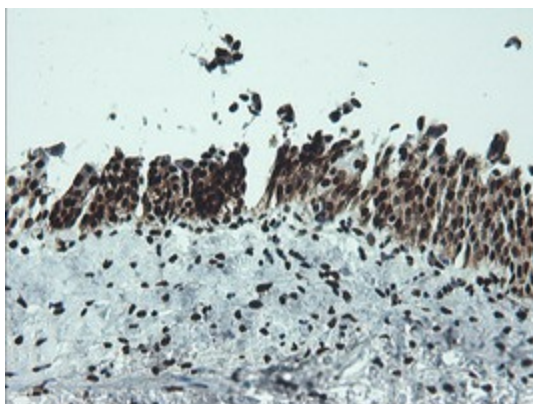
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



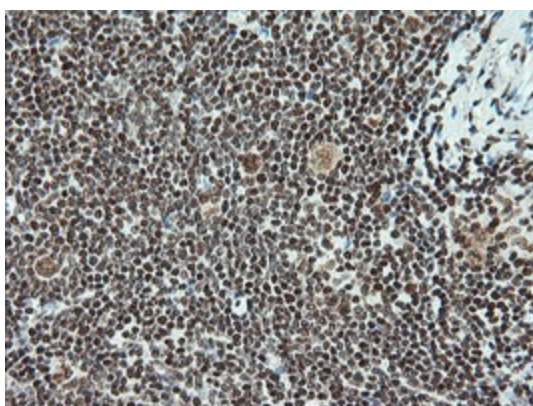
Immunohistochemical staining of paraffin-embedded endometrium tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500248, Dilution 1:50)



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

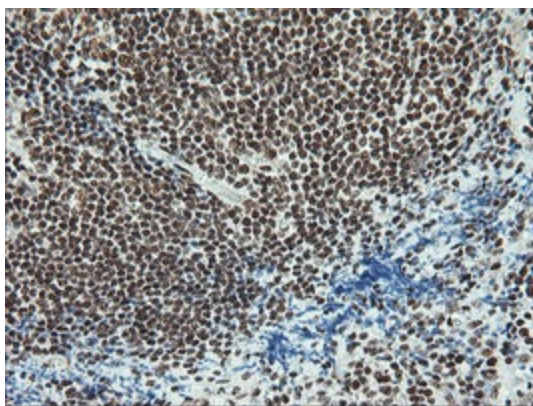


Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-NOTCH1 mouse monoclonal antibody. (TA500248)



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)