

NOTCH1 polyclonal antibody

Catalog # PAB10291 Size 200 uL

Applications

Western Blot (Transfected lysate)

Immunoblotting of NOTCH1 polyclonal antibody (Cat # PAB10291) was used at a 1 : 500 dilution to detect mouse NOTCH1 by Western blot.

Equivalent amounts of lysates from transiently transfected 293 cells expressing recombinant myc-tagged mouse Notch constructs were electrophoresed and transferred to membrane using standard methods.

A reaction with diluted primary antibody was followed by washing, reaction with a 1 : 10,000 dilution of HRP conjugated Gt-a-Rabbit IgG, and color development.

Lane 1 : No transfection.

Lane 2 : N1 (mouse deleted extracellular domain)-myc.

Lane 3 : N1 (mouse intracellular domain)-myc.

Lane 4 : N2 (mouse deleted extracellular domain)-myc.

Lane 5 : N2 (mouse intracellular domain)-myc.

Lane 6 : N3 (mouse deleted extracellular domain)-myc.

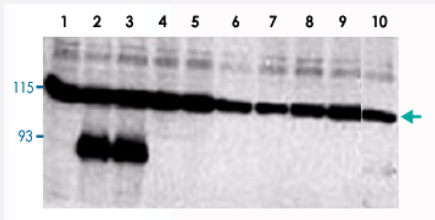
Lane 7 : N3 (mouse intracellular domain)-myc.

Lane 8 : N4 (mouse deleted extracellular domain)-myc.

Lane 9 : N4 (mouse intracellular domain)-myc.

Lane 10 : N1 (mouse deleted extracellular domain) (V to G)-myc.

Personal communication, Dr. Stacey Huppert.



Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NOTCH1.
Immunogen	A synthetic peptide corresponding to N-terminus the cleaved N intracellular domain (NICD) of human NOTCH1.
Host	Rabbit
Reactivity	Human, Mouse, Rat

Specificity	This antiserum is directed against human NOTCH 1. Only the cleaved intracellular (activated) form (NICD) is detected. No reactivity is detected against mouse N2, N3 or N4. The immunogen epitope is only exposed after gamma secretase cleavage and is not accessible in the uncleaved form.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Sandwich ELISA (1:20000-1:60000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.1% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Lane 2 : N1 (mouse deleted extracellular domain)-myc.

Lane 3 : N1 (mouse intracellular domain)-myc.

Lane 4 : N2 (mouse deleted extracellular domain)-myc.

Lane 5 : N2 (mouse intracellular domain)-myc.

Lane 6 : N3 (mouse deleted extracellular domain)-myc.

Lane 7 : N3 (mouse intracellular domain)-myc.

Lane 8 : N4 (mouse deleted extracellular domain)-myc.

Lane 9 : N4 (mouse intracellular domain)-myc.

Lane 10 : N1 (mouse deleted extracellular domain) (V to G)-myc.

Personal communication, Dr. Stacey Huppert.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — NOTCH1

Entrez GeneID

[4851](#)

Protein Accession#	P46531 (human)
Gene Name	NOTCH1
Gene Alias	TAN1, hN1
Gene Description	Notch homolog 1, translocation-associated (Drosophila)
Omim ID	109730 190198
Gene Ontology	Hyperlink
Gene Summary	<p>This gene encodes 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 homologue 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. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000022594 neurogenic locus notch homolog protein 1 notch1 translocation-associated notch protein TAN-1

Publication Reference

- [Notch signaling and inherited disease syndromes.](#)

Gridley T.

Human Molecular Genetics 2003 Apr; 12 Spec No 1:R9.

Application: Flow Cyt, WB, Human, Cancers, Mammalian cells

- [Notch-1 and Notch-2 exhibit unique patterns of expression in human B-lineage cells.](#)

Bertrand FE, Eckfeldt CE, Lysholm AS, LeBien TW.

Leukemia 2000 Dec; 14(12):2095.

Application: Flow Cyt, WB, Human Mouse , Leukemic B lineage cells

Pathway

- [Dorso-ventral axis formation](#)

- [Notch signaling pathway](#)
- [Prion diseases](#)

Disease

- [Alzheimer disease](#)
- [Birth Weight](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Multiple Myeloma](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Schizophrenia](#)