

NOTCH1 active protein

NOTCH1 Protein, Mouse, Recombinant (His Tag)

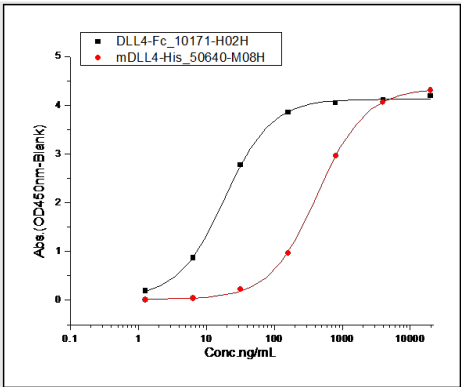
CATALOG # AAA258192	HOST Baculovirus-Insect Cells
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PRODUCT SYNONYMS

NOTCH1; NOTCH1 Protein; Mouse; Recombinant (His Tag); Mouse Notch-1/NOTCH1 Protein (His Tag); 9930111A19Rik Protein; lin-12 Protein; Mis6 Protein; N1 Protein; Tan1 Protein; notch 1; NOTCH1 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>82% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH7.4, 10% gly. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Gln52 6
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 19
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse NOTCH1 (NP_032740.3) N-terminal fragment (Met 1-Gln 526) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human DLL4 at 10ug/mL (100uL/well) can bind biotinylated mouse NOTCH1-his. The EC50 of biotinylated mouse NOTCH1-his is 40ng/mL. 3. Immobilized mouse DLL4-his at 10ug/mL (100uL/well) can bind biotinylated mouse NOTCH1-his. The EC50 of biotinylated mouse NOTCH1-his is 30ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data

Measured by its binding ability in a functional ELISA. 1. Immobilized human DLL4 at 10 ug/mL (100 ul/well) can bind biotinylated mouse NOTCH1-his, The EC50 of biotinylated mouse NOTCH1-his is 40 ng/mL. 2. Immobilized mouse DLL4-his at 10 ug/mL (100 ul/well) can bind biotinylated mouse NOTCH1-his, The EC50 of biotinylated mouse NOTCH1-his is 30 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for NOTCH1 active protein

Background: NOTCH1 is one of the four mammalian Notch receptors, which is involved in the Notch signaling pathway. Specifically, NOTCH1 promotes the proliferation of myogenic precursor cells, and the NICD domain of NOTCH1 can impair the regeneration of skeletal muscles. NOTCH1 is a prevalent signaling pathway in T cell acute lymphoblastic leukemia (T-ALL). The NOTCH signaling pathway is a conserved signaling cascade that regulates many aspects of development and homeostasis in multiple organ systems. The proto-oncogene NOTCH1 is frequently mutated in around 10% of patients with chronic lymphocytic leukemia (CLL). NOTCH1 mutations in oral squamous cell carcinoma (OSCC) frequently occur near the ligand-binding region. These mutations change the domain structure of this protein and affect the ligand-binding activity. When NOTCH1 is activated by ligand binding, the NOTCH1 intracellular domain (NICD) is cleaved from the cell membrane.

Product Categories/Family for NOTCH1 active protein

[Notch Pathway Tumor Suppressors](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	224967065
NCBI GeneID	18128
NCBI Accession #	NP_032740.3
NCBI GenBank Nucleotide #	NM_008714.3
UniProt Accession #	Q01705; Q06007; Q3TZW2; Q3U3Y2; Q61905; Q7TQ50; Q7TQ51; Q7TQ52; Q8K428; Q99JC2; Q9QW58; Q9R0X7
Molecular Weight	269,180 Da
NCBI Official Full Name	neurogenic locus notch homolog protein 1
NCBI Official Synonym Full Names	notch 1
NCBI Official Symbol	Notch1
NCBI Official Synonym Symbols	N1; Mis6; Tan1; lin-12; 9930111A19Rik
NCBI Protein Information	neurogenic locus notch homolog protein 1; Motch A; Notch gene homolog 1; mT14; major type A protein; p300; transmembrane receptor Notch1
UniProt Protein Name	Neurogenic locus notch homolog protein 1
UniProt Gene Name	Notch1

UniProt Synonym Gene Names	Motch; Notch 1; NEXT; NICD
UniProt Entry Name	NOTC1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-insect-cells-active-protein/notch1/258192>