



Synonym

NOTCH1, Notch 1, hN1, TAN1

Source

Mouse NOTCH1, His Tag(NO1-M52H8) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Gln 526 (Accession # [Q01705-1](#)).

Predicted N-terminus: Ala 19

Molecular Characterization

NOTCH1(Ala 19 - Gln 526)
Q01705-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 55.4 kDa. The protein migrates as 58-68 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

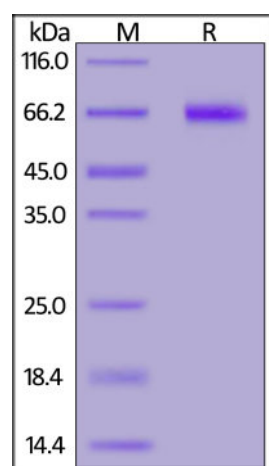
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse NOTCH1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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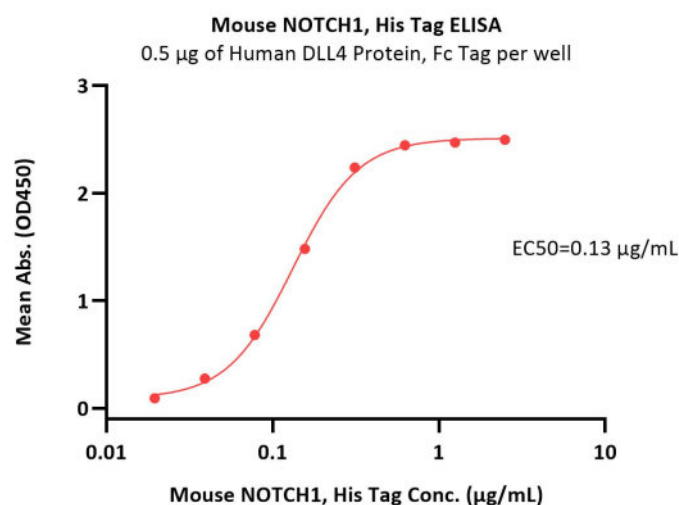


Mouse NOTCH1 Protein, His Tag

Catalog # NO1-M52H8



BIOSYSTEMS
Acro
Surprise Inside!



Immobilized Human DLL4 Protein, Fc Tag (Cat. No. DL4-H5259) at 5 µg/mL (100 µL/well) can bind Mouse NOTCH1, His Tag (Cat. No. NO1-M52H8) with a linear range of 0.02-0.313 µg/mL (QC tested).

Background

NOTCH1 Interacts with DNER, DTX1, DTX2 and RBPJ/RBPSUH. Also interacts with MAML1, MAML2 and MAML3 which act as transcriptional coactivators for NOTCH1. The NOTCH1 intracellular domain interacts with SNW1; the interaction involves multimerized NOTCH1 NICD and is implicated in a formation of an intermediate preactivation complex which associates with DNA-bound CBF-1/RBPJ. The activated membrane-bound form interacts with AAK1 which promotes NOTCH1 stabilization. Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Involved in the maturation of both CD4⁺ and CD8⁺ cells in the thymus. Important for follicular differentiation and possibly cell fate selection within the follicle. During cerebellar development, functions as a receptor for neuronal DNER and is involved in the differentiation of Bergmann glia.

Clinical and Translational Updates

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