Datasheet for ABIN7275363

Notch1 Protein (AA 19-526) (His-Avi Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	Notch1 (NOTCH1)
Protein Characteristics:	AA 19-526
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Notch1 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human Notch 1 Protein
Sequence:	Ala19-Gln526
Characteristics:	Recombinant Human Notch 1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Ala19-Gln526.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.48 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

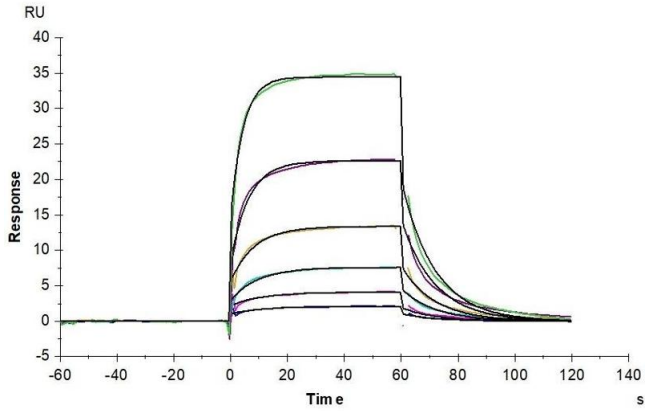
Target:	Notch1 (NOTCH1)
Alternative Name:	Notch 1 (NOTCH1 Products)
Background:	Human Notch-1 is a 300 kDa type I transmembrane glycoprotein that is one of four human Notch homologues involved in developmental processes.Notch-1 functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs.
Molecular Weight:	56.5 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
UniProt:	P46531
Pathways:	Notch Signaling, Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only

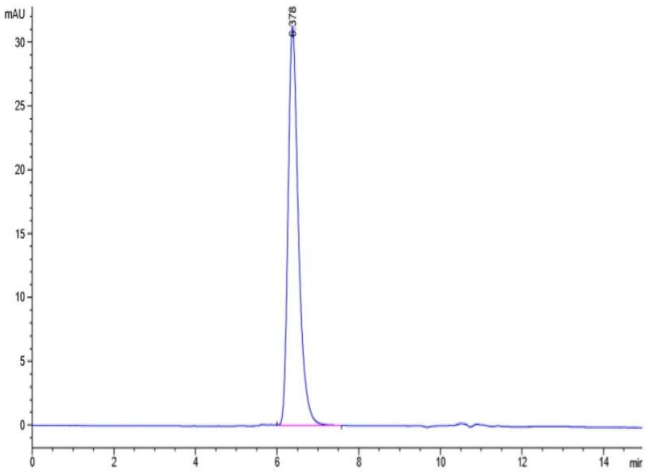
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



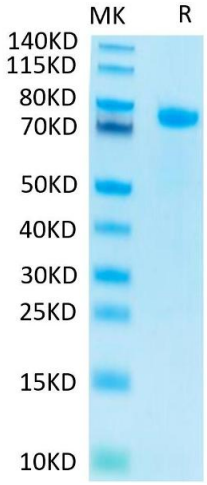
Surface Plasmon Resonance

Image 1. Human DLL4, hFc Tag captured on CM5 Chip via Protein A can bind Human Notch 1, His Tag with an affinity constant of 0.48 µM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human Notch 1 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human Notch 1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .

