Datasheet for ABIN3119132

NOTCH3 Protein (AA 1662-2321) (rho-1D4 tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	NOTCH3
Protein Characteristics:	AA 1662-2321
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH3 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	VMVARRKREH STLWFPEGFS LHKDVASGHK GRREPVGQDA LGMKNMAKGE SLMGEVATDW MDTECPEAKR LKVEEPGMGA EEAVDCRQWT QHHLVAADIR VAPAMALTPP QGDADADGMD VNVRGPDGFT PLMLASFCGG ALEPMPTEED EADDTSASII SDLICQGAQL GARTDRTGET ALHLAARYAR ADAAKRLLDA GADTNAQDHS GRTPLHTAVT ADAQGVFQIL IRNRSTDLDA RMADGSTALI LAARLAVEGM VEELIASHAD VNAVDELGKS ALHWAAAVNN VEATLALLKN GANKDMQDSK EETPLFLAAR EGSYEAAKLL LDHFANREIT DHLDRLPRDV AQERLHQDIV RLLDQPSGPR SPPGPHGLGP LLCPPGAFLP GLKAAQSGSK KSRRPPGKAG LGPQGPRGRG KKLTLACPGP LADSSVTLSP VDSLDSPRPF GGPPASPGGF PLEGPYAAAT ATAVSLAQLG GPGRAGLGRQ PPGGCVLSLG LLNPVAVPLD WARLPPPAPP GPSFLLPLAP GPQLLNPGTP VSPQERPPPY LAVPGHGEEY PAAGAHSSPP KARFLRVPSE HPYLTPSPES PEHWASPSPP SLSDWSESTP SPATATGAMA TTTGALPAQP LPLSVPSSLA QAQTQLGPQP EVTPKRQVLA **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a**

	special request, please contact us.
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human NOTCH3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.

Product Details

Grade:	Crystallography grade

Target Details

Target:	NOTCH3
Alternative Name:	NOTCH3 (NOTCH3 Products)
Background:	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 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 (By similarity). {ECO:0000250}.
Molecular Weight:	70.2 kDa Including tag.
UniProt:	Q9UM47
Pathways:	Notch Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	Unlimited (if stored properly)