Datasheet for ABIN3131581

NOTCH2 Protein (AA 1666-2470) (rho-1D4 tag)

1 Image

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Overview

Quantity:	1 mg
Target:	NOTCH2
Protein Characteristics:	AA 1666-2470
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH2 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	VFSELESPRN AQLLYLLAVA VVIILFFILL GVIMAKRKQA WLPLAAGRFT LRRDSSNHKR REPVGQDAVG LKNLSVQVSE ANLIGSGTSE HWVDDEGPQP KKAKAEDEAL LSEDDPIDRR PWTQQHLEAA DISHTPSLAL TPPQAEQEVD VLDVNVRGPD GCTPLMLASL RGGSSDLSDE DEDAEDSSAN IITDLVYQGA SLQAQTDRTG EMALHLAARY SRADAAKRLL DAGADRNAQD NMGRCPLHAA VAGDAQGVFQ ILIRNRVTDL DARMNDGTTP LILAARLAVE GMVAELINCQ ADVNAVDDHG KSALHWAAAV NNVEATLLLL KNGANRDMQD NKEETPLFLA AREGSYEAAK ILLDHFANRD ITDHMDRLPR DVARDRMHHD IVRLLDEYNV TPSPPGTVLT SALSPVLCGP NRSFLSLKHT PMGKKARRPN TKSTMPTSLP NLAKEAKDAK GSRRKKCLNE KVQLSESSVT LSPVDSLESP HTYVSDATSS PMITSPGILQ ASPTPLLAAA APAAPVHTQH ALSFSNLHDM QPLAPGASTV LPSVSQLLSH HHIAPPGSSS AGSLGRLHPV PVPADWMNRV EMNETQYSEM FGMVLAPAEG AHPGIAAPQS RPPEGKHMST QREPLPPIVT FQLIPKRSIA QAAGAPQTQS SCPPAVAGPL PSMYQIPEMP RLPSVAFPPT MMPQQEGQVA QTIVPTYHPF PASVGKYPTP

	PSQHSYASSN AAERTPSHGG HLQGEHPYLT PSPESPDQWS SSSPHSASDW SDVTTSPTPG GGGGGQRGPG THMSEPPHSN MQVYA **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. • Mouse Notch2 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	NOTCH2
Alternative Name:	Notch2 (NOTCH2 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). May play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation. In collaboration with RELA/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation. Positively regulates self-renewal of liver cancer cells (By similarity). {ECO:0000250|UniProtKB:Q04721, ECO:0000269|PubMed:10393120, ECO:0000269|PubMed:18710934}.
Molecular Weight:	87.5 kDa Including tag.
UniProt:	O35516
Pathways:	Notch Signaling, Stem Cell Maintenance

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:	Protein has not been tested for activity yet. 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

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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.
Expiry Date:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

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