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Datasheet for ABIN3133712

NOTCH4 Protein (AA 1411-1964) (rho-1D4 tag)**3** Images

Overview

Quantity:	1 mg
Target:	NOTCH4
Protein Characteristics:	AA 1411-1964
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH4 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	MAAVGALEPL LPGPLLAHP QAGTRPSANQ LPWPILCSPV VGVLLLALGA LLVLQLIRRR RREHGALWLP PGFIRRPQTQ QAPHRRRPPL GEDNIGLKAL KPEAEVDEDG VAMCSGPPEG EAEETASASR CQLWPLNSGC GELPQAAMLT PPQECESEVL DVDTGCPDGV TPLMSAVFCG GVQSTTGASP QRLGLGNLEP WEPLDRGAC PQAHTVGTGE TPLHLAARFS RPTAARRLLE AGANPNQPDR AGRTPLHTAV AADAREVCQL LLASRQTTVD ARTEDGTTPL MLAARLAVED LVEELIARA DVGARDKRGK TALHWAAAVN NARAARSLQ AGADKDAQDS REQTPFLFLAA REGAVEVAQL LLELGAARGL RDQAGLAPGD VARQRSHWDL LTLLEGAGPT TQEARAHART TPGGGAAPRC RTLSAGARPR GGGACQART WSVDLGARGG KVIYARCRSRS GSCGGPTTRG RRFSAGSRGR RGARASQDDW PRDWVALEAC GSACSAPIPP PSLTPSPERG SPQVAWGLPV HQEIPLNSVV RNLNGSSGTE TSQVAPA
Specificity:	C-terminal Rho-tag

Product Details

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Notch4 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). <p>This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..</p> <p>When you order this made-to-order protein you will only pay upon receipt 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.</p> <p>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.</p> <p>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.</p>
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Purification:	<p>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. Membrane proteins are fractionated 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 chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin-free.
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Grade:	Crystallography grade
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Target Details

Target:	NOTCH4
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Alternative Name:	Notch4 (NOTCH4 Products)
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Background:	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate
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Target Details

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 regulate branching morphogenesis in the developing vascular system. {ECO:0000250, ECO:0000269|PubMed:11344305}.

Molecular Weight: 59.5 kDa Including tag.

UniProt: [P31695](#)

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 guarantee 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

Handling

Format: Liquid

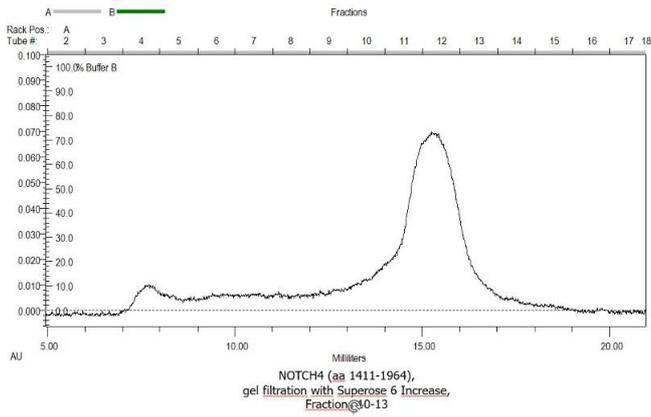
Buffer: 20 mM Tris, pH 8.0; 300 mM NaCl; 2 mM DTT, 2 mM EDTA, 0.1% Triton X-100

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

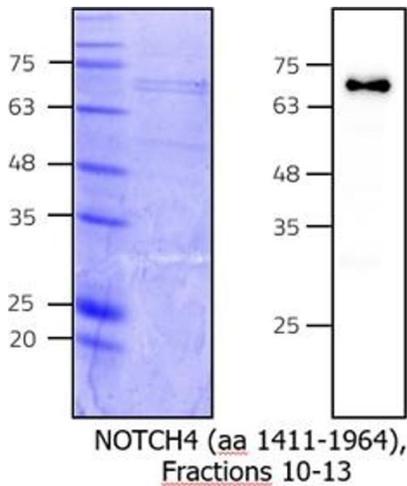


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.



Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 3.