

Datasheet for ABIN3133716

## NOTCH4 Protein (AA 21-1443) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	NOTCH4
Protein Characteristics:	AA 21-1443
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

#### Product Details

Sequence:	<p>RELLCGGSPE PCANGGTCLR LSQGGICQC APGFLGETCQ FPDPCRDTQL CKNGGSCQAL  LPTPPSSRSP TSPLTPHFSC TCPSGFTGDR CQTHLEELCP PSFCSNGGHC YVQASGRPQC  SCEPGWTGEQ CQLRDFCSAN PCANGGVCLA TYPQIQCRCP PGFEGHTCER DINECFLEPG  PCPQGTSCHN TLGSYQCLCP VGQEGPQCKL RKGACPPGSC LNGGTCQLVP EGHSTFHLCL  CPPGFTGLDC EMNPDDCVRH QCQNGATCLD GLDYYTCLCP KTWKGWDCSE DIDECEARGP  PRCRNGGTCQ NTAGSFHCVC VSGWGGAGCE ENLDDCAAAT CAPGSTCIDR VGSFSLCPP  GRTGLLCHLE DMCLSQPCHV NAQCSTNPLT GSTLCICQPG YSGSTCHQDL DECQMAQQGP  SPCEHGGSCI NTPGSFNCLC LPGYTGRCE ADHNECLSQP CHPGSTCLDL LATHFCLCPP  GLEGRLCEVE VNECTSNPCL NQAACHDLLN GFQCLCLPGF TGARCEKDMD ECSSTPCANG  GRCRDQPGAF YCECLPGFEG PHCEKEVDEC LSDPCPVGAS CLDLPGAFFC LCRPGFTGQL  CEVPLCTPNM CQPGQQCQGQ EHRAPCLCPD GSPGCVPAED NCPCHHGHCQ RSLCVCDEGW  TGPECETELG GCISTPCAHG GTCHPQPSGY NCTCPAGYMG LTCSEEVAC HSGPCLNGGS</p>
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CSIRPEGYSC TCLPSHTGRH CQTAVDHCVS ASCLNGGTCV NKP GTFFFCLC ATGFQGLHCE  
EKTNPSCADS PCRNKATCQD TPRGARCLCS PGYTGSSCQT LIDL CARKPC PHTARCLQSG  
PSFQCLCLQG WTGALCDFPL SCQMAAMSQG IEISGLCQNG GLCIDTGSSY FCRCPPGFQG  
KLCQDNMNPC EPNPCHHGST CVPQPSGYVC QCAPGYEQN CSKVLEACQS QPCHNHGTCT  
SRPGGFHCAC PPGFVGLRCE GDVDECLDRP CHPSGTAACH SLANAFYCQC LPGHTGQRCE  
VEMDLCQSQP CSNGGSCEIT TGPPPGFTCH CPKGFEGPTC SHKALSCGIH HCHNGGLCLP  
SPKPGSPPLC ACLSGFGGPD CLTPPAPPGC GPPSPCLHNG TCTETPGLGN PGFQCTCPPD  
SPGPRCQRP ASGCEGRGGD GTC DAGCSGP GGDWDGGDCS LGVPDPWKGC PPHSQCWLLF  
RDGRCHPQCD SEECLFDGYD CEIPLTCIPA YDQYCRDHFH NGHCEKGCNN AECGWDDGGDC  
RPEGEDSEGR PSLALLVLR PPALDQQLA LARVLSLTLR VGLWVRKDSE GRNMVFPYPG  
TRAKEELSGA RDSSSWERQA PPTQPLGKET ESLGAGFVVV MGVDL SRCGP EHPASRCPWD  
SGLLLRFLAA MAAVGALEPL LPGPLLAHP QAGTRPPANQ LPW

**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 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).

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 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.

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.

## Product Details

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. 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.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	NOTCH4
Alternative Name:	Notch4 ( <a href="#">NOTCH4 Products</a> )
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 regulate branching morphogenesis in the developing vascular system. {ECO:0000250, ECO:0000269 PubMed:11344305}.
Molecular Weight:	150.4 kDa Including tag.
UniProt:	<a href="#">P31695</a>
Pathways:	<a href="#">Notch Signaling</a>

## Application Details

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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

## Application Details

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options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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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

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