antibodies

## Datasheet for ABIN3133022 N-Cadherin Protein (AA 160-724) (His tag)



1 Image

Overview

Quantity:	1 mg
Target:	N-Cadherin (CDH2)
Protein Characteristics:	AA 160-724
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This N-Cadherin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	VCQCDSNGDC TDVDRIVGAG LGTGA
	DLPLSPVTIK RNWTINRLNG DFAQLNLKIK FLEAGIYEVP IIITDSGNPP KSNISILRVK
	NGIPPMSGTG TLQIYLLDIN DNAPQVLPQE AETCETPEPN SINITALDYD IDPNAGPFAF
	TAQDPDRYMQ QNIRYTKLSD PANWLKIDPV NGQITTIAVL DRESPNVKNN IYNATFLASD
	LTVAAENQVP LAKGIQHPPQ STATVSVTVI DVNENPYFAP NPKIIRQEEG LHAGTMLTTL
	VANLTVTDKD QPHTPAWNAA YRISGGDPTG RFAILTDPNS NDGLVTVVKP IDFETNRMFV
	EKVQQYTLII QATDMEGNPT YGLSNTATAV ITVTDVNDNP PEFTAMTFYG EVPENRVDVI
	SKPGTYVMTV TAIDADDPNA LNGMLRYRIL SQAPSTPSPN MFTINNETGD IITVAAGLDR
	SVTKPLDREL IARFHLRAHA VDINGNQVEN PIDIVINVID MNDNRPEFLH QVWNGSVPEG
Sequence:	DWVIPPINLP ENSRGPFPQE LVRIRSDRDK NLSLRYSVTG PGADQPPTGI FIINPISGQL
Soquenee:	

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Product Details	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Cdh2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	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.
	<ol> <li>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

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Target Details	
Target:	N-Cadherin (CDH2)
Alternative Name:	Cdh2 (CDH2 Products)
Background:	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with
	themselves in a homophilic manner in connecting cells, cadherins may thus contribute to the
	sorting of heterogeneous cell types. Acts as a regulator of neural stem cells quiescence by
	mediating anchorage of neural stem cells to ependymocytes in the adult subependymal zone:
	upon cleavage by MMP24, CDH2-mediated anchorage is affected, leading to modulate neural
	stem cell quiescence (PubMed:24952463). CDH2 may be involved in neuronal recognition
	mechanism. In hippocampal neurons, may regulate dendritic spine density.
	{ECO:0000269 PubMed:11433297, ECO:0000269 PubMed:17988630,
	EC0:0000269 PubMed:24952463}.
Molecular Weight:	62.7 kDa Including tag.
UniProt:	P15116
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Synaptic Membrane
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
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.

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Handling
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Expiry Date:

Unlimited (if stored properly)

## Images



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

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