antibodies

Datasheet for ABIN3136906 LRP8 Protein (AA 29-996) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	LRP8
Protein Characteristics:	AA 29-996
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRP8 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	DPLPGGQGPV KECEEDQFRC RNERCIPLVW RCDEDNDCSD NSDEDDCPKR TCADSDFTCD
	NGHCIPERWK CDGEEECPDG SDESKATCSS EECPAEKLSC GPTSHKCVPA SWRCDGEKDC
	EGGADEAGCP TLCAPHEFQC SNRSCLASVF VCDGDDDCGD GSDERGCSDP ACPPREFRCG
	GGGTCIPERW VCDRQFDCED RSDEAAELCG RAGQGTTATP AACAPTAQFT CRSGECIHLG
	WRCDGDRDCK DKSDEADCSP GPCRENEFQC GDGTCVLAIK RCNQERDCPD GSDEAGCLQE
	STCEGPRRFQ CKSGECVDGG KVCDDQRDCR DWSDEPQKVC GLNECLHNNG GCSHICTDLK
	IGFECTCPAG FQLLDQKTCG DIDECQDPDA CSQICVNYKG YFKCECHPGY EMDTLTKNCK
	AVAGKSPSLI FTNRHEVRRI DLVKRDYSRL IPMLKNVVAL DVEVATNRIY WCDLSYRKIY
	SAHMDKASIP DEQVVLIDEQ LHSPEGLAVD WVHKHIYWTD SGNKTISVAT TDGRRRCTLF
	SRELSEPRAI AVDPLRGFMY WSDWGFQAKI EKAGLNGADR QTLVSDNIEW PNGITLDLLS
	QRLYWVDSKL HQLSSIDFNG GNRKMLIFST DFLSHPFGVA VFEDKVFWTD LENEAIFSAN
	RLNGLEIAIL AENLNNPHDI VIFHELKQPK AADACDLSAQ PNGGCEYLCL PAPQISSHSP

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	KYTCACPDTM WLGPDMKRCY RAPQSTSTTT LASAMTRTVP ATTRAPGTTI HDPTYQNHST
	ETPSQTAAAP HSVNVPRAPS TSPSTPSPAT SNHSQHYGNE GSQMGSTVTA AVIGVIVPIV
	VIALLCMSGY LIWRNWKRKN TKSMNFDNPV YRKTTEEEEE DELHIGRTAQ IGHVYPAAIS
	NYDRPLWAEP CLGETRDLED PAPALKELFV LPGEPRSQLH QLPKNPLSEL PVVKCKRVAL
	SLEDDGLP
	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 Lrp8 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:
	 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

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Product Details

	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.
Grade:	Crystallography grade

Target Details

Target:	LRP8
Alternative Name:	Lrp8 (LRP8 Products)
Background:	Cell surface receptor for Reelin (RELN) and apolipoprotein E (apoE)-containing ligands. LRP8
	participates in transmitting the extracellular Reelin signal to intracellular signaling processes, b
	binding to DAB1 on its cytoplasmic tail. Reelin acts via both the VLDL receptor (VLDLR) and
	LRP8 to regulate DAB1 tyrosine phosphorylation and microtubule function in neurons. LRP8
	has higher affinity for Reelin than VLDLR. LRP8 is thus a key component of the Reelin pathway
	which governs neuronal layering of the forebrain during embryonic brain development. Binds
	the endoplasmic reticulum resident receptor-associated protein (RAP). Binds dimers of beta 2-
	glycoprotein I and may be involved in the suppression of platelet aggregation in the vasculature
	Highly expressed in the initial segment of the epididymis, where it affects the functional
	expression of clusterin and phospholipid hydroperoxide glutathione peroxidase (PHGPx), two
	proteins required for sperm maturation. May also function as an endocytic receptor.
	{ECO:0000269 PubMed:12695510}.
Molecular Weight:	108.0 kDa Including tag.
UniProt:	Q924X6
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 gurante
	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

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Application Details	
	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.
Expiry Date:	Unlimited (if stored properly)

Images

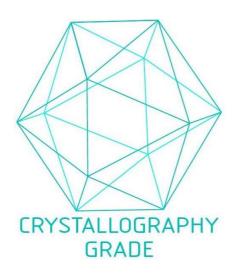


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process