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Datasheet for ABIN3112950 CD46 Protein (CD46) (AA 35-392) (rho-1D4 tag)



1 Image



Quantity:	1 mg
Target:	CD46
Protein Characteristics:	AA 35-392
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD46 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

	VWSRAAPECK VVKCRFPVVE NGKQISGFGK KFYYKATVMF ECDKGFYLDG SDTIVCDSNS TWDPPVPKCL KVLPPSSTKP PALSHSVSTS STTKSPASSA SGPRPTYKPP VSNYPGYPKP EEGILDSLDV WVIAVIVIAI VVGVAVICVV PYRYLQRRKK KGTYLTDETH REVKFTSL 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. Human CD46 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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Product Details	
	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.
	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.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	CD46

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Target Details	
Alternative Name:	CD46 (CD46 Products)
Background:	Acts as a cofactor for complement factor I, a serine protease which protects autologous cells
	against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be
	involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a
	costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1
	cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and
	therefore are thought to prevent autoimmunity. {ECO:0000269 PubMed:10843656,
	ECO:0000269 PubMed:12540904}., (Microbial infection) A number of viral and bacterial
	pathogens seem to bind MCP in order to exploit its immune regulation property and directly
	induce an immunosuppressive phenotype in T-cells. Acts as a receptor for adenovirus
	subgroup B2 and Ad3, cultured measles virus and herpesvirus 6 (PubMed:10972291,
	PubMed:12663806, PubMed:12724329, PubMed:12915534, PubMed:14566335,
	PubMed:15047806, PubMed:15078926, PubMed:15919905, PubMed:16254377). May act as a
	receptor for pathogenic bacteria Neisseria and Streptococcus pyogenes (PubMed:7708671,
	PubMed:9379894, PubMed:11260136, PubMed:11971006). {ECO:0000269 PubMed:10972291,
	EC0:0000269 PubMed:11260136, EC0:0000269 PubMed:11971006,
	EC0:0000269 PubMed:12663806, EC0:0000269 PubMed:12724329,
	ECO:0000269 PubMed:12915534, ECO:0000269 PubMed:14566335,
	EC0:0000269 PubMed:15047806, EC0:0000269 PubMed:15078926,
	EC0:0000269 PubMed:15919905, EC0:0000269 PubMed:16254377,
	EC0:0000269 PubMed:7708671, EC0:0000269 PubMed:9379894}.
Molecular Weight:	41.1 kDa Including tag.
UniProt:	P15529
Pathways:	Regulation of Actin Filament Polymerization
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:	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.

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Application Details

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

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