Datasheet for ABIN3134869 CD31 Protein (AA 18-727) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	CD31 (PECAM1)
Protein Characteristics:	AA 18-727
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD31 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	EENSFTINSI HMESLPSWEV MNGQQLTLEC LVDISTTSKS RSQHRVLFYK DDAMVYNVTS
	REHTESYVIP QARVFHSGKY KCTVMLNNKE KTTIEYEVKV HGVSKPKVTL DKKEVTEGGV
	VTVNCSLQEE KPPIFFKIEK LEVGTKFVKR RIDKTSNENF VLMEFPIEAQ DHVLVFRCQA
	GILSGFKLQE SEPIRSEYVT VQESFSTPKF EIKPPGMIIE GDQLHIRCIV QVTHLVQEFT EIIIQKDKAI
	VATSKQSSEA VYSVMAMVEY SGHYTCKVES NRISKASSIM VNITELFPKP KLEFSSSRLD
	QGELLDLSCS VSGTPVANFT IQKEETVLSQ YQNFSKIAEE SDSGEYSCTA GIGKVVKRSG
	LVPIQVCEML SKPSIFHDAK SEIIKGHAIG ISCQSENGTA PITYHLMKAK SDFQTLEVTS
	NDPATFTDKP TRDMEYQCRA DNCHSHPAVF SEILRVRVIA PVDEVVISIL SSNEVQSGSE
	MVLRCSVKEG TSPITFQFYK EKEDRPFHQA VVNDTQAFWH NKQASKKQEG QYYCTASNRA
	SSMRTSPRSS TLAVRVFLAP WKKGLIAVVV IGVVIATLIV AAKCYFLRKA KAKQKPVEMS
	RPAAPLLNSN SEKISEPSVE ANSHYGYDDV SGNDAVKPIN QNKDPQNMDV EYTEVEVSSL
	EPHQALGTRA TETVYSEIRK VDPNLMENRY SRTEGSLNGT

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	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 Pecam1 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. 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.
	 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

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Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	CD31 (PECAM1)
Alternative Name:	Pecam1 (PECAM1 Products)
Background:	Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-679 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes. Prevents phagocyte ingestion of closely apposed viable cells by transmitting 'detachment' signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes (the encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active repulsion from the phagocyte. During apoptosis, the inside-out signaling of PECAM1 is somehow disabled so that the apoptotic cell does not actively reject the phagocyte anymore. The lack of this repulsion signal together with the interaction of the eat-me signals and their respective receptors causes the attachment of the apoptotic cell to the phagocyte, thus triggering the process of engulfment). Modulates BDKRB2 activation (By similarity). Induces susceptibility to atherosclerosis. {ECO:0000250, ECO:0000269]PubMed:19048083}.
Molecular Weight:	80.7 kDa Including tag.
UniProt:	Q08481
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:	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.

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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)