

Datasheet for ABIN3134868
CD31 Protein (AA 18-590) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CD31 (PECAM1)
Protein Characteristics:	AA 18-590
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD31 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: EENSFTINSI HMESLPSWEV MNGQQLTLEC LVDISTTSKS RSQHRVLFYK DDAMVYNVTS
REHTESYVIP QARVFHSGKY KCTVMLNKE KTTIEYEVKV HGVSKPKVTL DKKEVTEGGV
VTVNCSLQEE KPPIFFKIEK LEVGTKFVKR RIDKTSNENF VLMEFPPIEAQ DHVLVFRCA
GILSGFKLQE SEPIRSEYVT VQESFSTPKF EIKPPGMIIE GDQLHIRCIV QVTHLVQEFT EIIIQDKAI
VATSKQSSEA VYSVMAMVEY SGHYTCKVES NRISKASSIM VNITELFKPK KLEFSSRLD
QGELLDLSCS VSGTPVANFT IQKEETVLSQ YQNFSKIAEE SDSGEYSCTA GIGKVVKRSG
LVPIQVCEML SKPSIFHDAK SEIIKGHAIG ISCQSENGTA PITYHLMKAK SDFQTLEVTS
NDPATFTDKP TRDMEYQCRA DNCHSHPAVF SEILRVRVIA PVDEVVISIL SSNEVQSGSE
MVLRCVKEG TSPITFQFYK EKEDRPFHQA VVNDTQAFWH NKQASKKQEG QYYCTASNRA
SSMRTSPRSS TLAVRVFLAP WKK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- 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 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.

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- 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.
 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.

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:	CD31 (PECAM1)
Alternative Name:	Pecam1 (PECAM1 Products)
Background:	<p>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}.</p>
Molecular Weight:	65.5 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 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 options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

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