

## Datasheet for ABIN7520398 CD31 Protein (His tag)



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### Overview

Quantity:	100 µg
Target:	CD31 (PECAM1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD31 protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human PECAM-1/CD31 Protein
Sequence:	QENSFTINSV DMKSLPDWTV QNGKNLTLQC FADVSTTSHV KPQHQLMFYK DDVLFYNISS MKSTESYFIP EVRIYDSGTY KCTVIVNKE KTTAEYQLV EGVPSRVTL DKKEAIQGGI VRVNCVPEE KAPIHFTIEK LELNEKMKL KREKNSRDQN FVILEFPVEE QDRVLSFRCQ ARIISGIHMV TSESTKSELV TVTESFSTPK FHSPTGMIM EGAQLHIKCT IQVTHLAQEF PEIIQKDKA IVAHNRHGNK AVYSVMAMVE HSGNYTCKVE SSRISKVSSI VVNITELFSK PELESSFTHL DQGERLNLSC SIPGAPPANF TIQKEDTIVS QTQDFTKIAS KSDSGTYICT AGIDKVVKKS NTVQIVVCEM LSQPRISYDA QFEVIKGQTI EVRCESISGT LPISYQLLKT SKVLENSTKN SNDPAVFKDN PTEDVEYQCV ADNCHSHAKM LSEVLRVKVI APVDEVQISI LSSKVVESGE DIVLQCAVNE GSGPITYKPY REKEGKPFYQ MTSNATQAFW TKQKASKEQE GEYYCTAFNR ANHASSVPRS KILTVRVILA PWKK
Specificity:	Gln28-Lys601
Purity:	> 90 % by SDS-PAGE.

## Product Details

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Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Human CD31 at 1 µg/mL (100 µL/well) can bind Human CTNNB1 with a linear range of 9.7 ng/mL-1.5 µg/mL.2.Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8x10 <sup>4</sup> cells/well are added to CD31 coated plates (5µg/mL, 100 µL/well) in the presence of 10 µg/mL PHA,approximately 60-70% will adhere after 30 minutes at 37°C.3.Measured by its binding ability in a functional ELISA.Immobilized APC anti-human CD31 Antibody at 1µg/mL (100 µL/well) can bind Human CD31 Protein with a linear range of 4-25.8 ng/mL.

## Target Details

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Target:	CD31 (PECAM1)
Alternative Name:	PECAM-1/CD31 ( <a href="#">PECAM1 Products</a> )
Background:	<p>Description: The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation.</p> <p>Name: C85791, Cd31, PECAM-1, Pecam,PECAM1,CD31, PECA1, GPIIA', endoCAM, CD31/EndoCAM,CD31/EndoCAM,PECA1,PECAM-1,endoCAM,GPIIA</p>
Gene ID:	5175
UniProt:	<a href="#">P16284</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a>

## Application Details

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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %

## Handling

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Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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Storage: -20 °C, -80 °C

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Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.  
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.