

Datasheet for ABIN7197407
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:	Recombinant Human CD31/PECAM1 Protein (His Tag)(Active)
Sequence:	Met 1-Lys 601
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Lys 601) of human CD31 (EAW94208.1) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8 x 10 ⁴ cells/well are added to CD31-His coated plates (10 µg/mL, 100 µL/well) in the presence of 20 ng/mL PMA, approximately 35-45% will adhere after 30 minutes at 37°C.

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	CD31/PECAM1 (PECAM1 Products)
Background:	<p>Background: The Cluster of Differentiation 31 (CD31) adhesion molecule, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1), is the only known member of the CAM family on platelets. CD31 protein is a 130-kDa transmembrane glycoprotein expressed by endothelial cells, platelets, monocytes, neutrophils, and certain T cell subsets. CD31 protein is also expressed in certain tumors, including epithelioid hemangioendothelioma, other vascular tumors, and histiocytic malignancies. CD31 plays a key role in removing aged neutrophils and tissue regeneration. CD31 protein mediates the homotypic or heterotypic cell adhesion by binding to itself or the leukocyte integrin $\alpha\beta 3$, and thus plays a role in neutrophil recruitment in inflammatory responses, transendothelial migration of leukocytes, as well as in cardiovascular development.</p> <p>Synonym: Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA; PECA1; CD31; PECAM1</p>
Molecular Weight:	66 kDa
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.