Recombinant Human PECAM-1/CD31 Protein

Catalog No.: RP00096

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Sequence Information

Species
Human

Gene ID
5175

Swiss Prot
P16284

Tags
C-His

Synonyms
C85791, Cd31, PECAM-1, Pecam, PECAM1,CD31, PECA1, GPIIA', endoCAM, CD31/EndoCAM,CD31 /EndoCAM,PECA1,PECAM-1, endoCAM,GPIIA

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
65.30 kDa

Observed MW
85-105 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description
Recombinant Human PECAM-1/CD31 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln28-Lys601) of human CD31/PECAM1 (Accession #NP_000433.4) fused with a 6×His tag at the C-terminus.

Activity
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 8×104 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℃.
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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

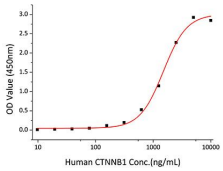
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

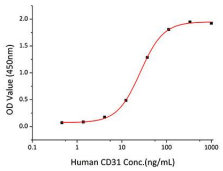
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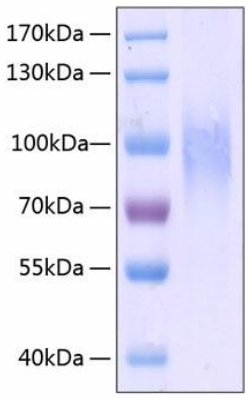
Validation Data



Immobilized Human CD31 at 1 μg/mL (100 μL/well) can bind Human CTNNB1 with a linear range of 9.7 ng/ml-1.5μg/mL.



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.



Recombinant Human PECAM-1/CD31 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.