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Recombinant Human PECAM-1/CD31 Protein

Catalog No.: RP00096 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5175 P16284

Tags

C-His

Synonyms

C85791; Cd31; PECAM-1; Pecam; PECAM1; CD31; PECA1; GPIIA'; endoCAM; CD31/EndoCAM; CD31/EndoCAM; PECA1; P

Product Information

ECAM-1;endoCAM;GPIIA

Source Purification

HEK293 cells ≥ 90 % as determined by SDS-

PAGE.

Calculated MW Observed MW

65.30 kDa 85-105 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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.

Contact

6	400-999-6126
\bowtie	cn.market@abclonal.com.cn

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.

Bio-Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Human CD31 at 1 μ g/mL (100 μ L/well) can bind Human CTNNB1 with a linear range of 9.7 ng/mL-1.5 μ g/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 (5 μ g/mL, 100 μ L/well) in the presence of 10 μ g/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 1 μ g/mL (100 μ L/well) can bind Human CD31 Protein with a linear range of 4-25.8 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

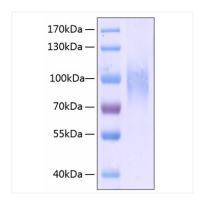
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

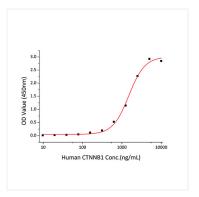
Operational Notes

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

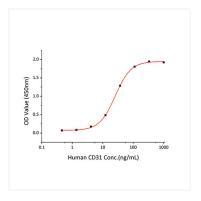
Validation Data



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



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



Immobilized APC anti-human CD31 Antibody at 1 μ g/mL (100 μ L/well) can bind Human CD31 Protein with a linear range of 4-25.8 ng/mL.