

Recombinant Human CD31 protein (rFc Tag)

Catalog Number: Eg4658

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human CD31 protein Gln28-Lys601 (Accession# P16284-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

5175

Accession:

P16284-1

Predicted Molecular Mass:

90.8 kDa

SDS-PAGE:

90-125 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Platelet endothelial cell adhesion molecule-1 (PECAM-1, CD31) is a member of the immunoglobulin gene superfamily of cell adhesion molecules. CD31 is a transmembrane glycoprotein that is highly expressed on the surface of the endothelium, making up a large portion of its intracellular junctions. CD31 is also present on the surface of hematopoietic cells and immune cells, including platelets, monocytes, neutrophils, natural killer cells, megakaryocytes, and some types of T-cells. In addition to its role in cell-cell adhesion, CD31 serves as a signaling receptor and is involved in crucial physiological events, including nitric oxide production, regulation of T-cell immunity and tolerance, leukocyte transendothelial migration, and inflammation and angiogenesis.

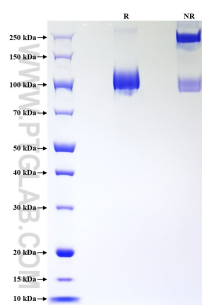
References

1. Newman, P J. The Journal of clinical investigation vol. 99,1 (1997): 3-8.
2. McCormick, Margaret E et al. Arteriosclerosis, thrombosis, and vascular biology vol. 31,3 (2011): 643-9.
3. Ma, Liang et al. Proceedings of the National Academy of Sciences of the United States of America vol. 107,45 (2010): 15451-15456.
4. Woodfin, Abigail et al. Arteriosclerosis, thrombosis, and vascular biology vol. 27,12 (2007): 2514-23.
5. Kim, Hyongbum et al. Circulation research vol. 107,5 (2010): 602-14.

Synonyms

EndoCAM, GPIIA, GPIIA', PECA1, PECAM 1

Selected Validation Data



Purity of Recombinant Human CD31 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.