

For Research Use Only

Recombinant Human CD146/MCAM protein (rFc Tag)



Catalog Number: Eg2938

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CD146 protein Val24-Gly559 (Accession# P43121-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

4162

Accession:

P43121-1

Predicted Molecular Mass:

85.8 kDa

SDS-PAGE:

100-120 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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

MCAM, also known as melanoma cell adhesion molecule (CD146) or MUC18, originally identified as a biomarker of melanoma progression, is a transmembrane glycoprotein belonging to the immunoglobulin (Ig) superfamily. Structurally, it consists of five Ig domains, a transmembrane domain, and a cytoplasmic region. A soluble form of CD146 has also been reported. In normal adult tissue, CD146 is primarily expressed by vascular endothelium and smooth muscle. CD146 is a key cell adhesion protein in vascular endothelial cell activity and angiogenesis, and has been used as marker of circulating endothelium cells (CECs).

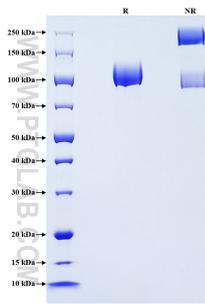
References

1. Sers C. et al. (1993). Proc Natl Acad Sci U S A. 90(18):8514-8518.
2. Ouhtit A. et al. (2009). Biochim Biophys Acta. 1795(2):130-136.
3. Bardin N. et al. (1998). FEBS Lett. 421(1):12-14.
4. Bardin N. et al. (2009). Arterioscler Thromb Vasc Biol. 29(5):746-753.

Synonyms

CD146, MCAM, Melanoma-associated antigen A32, Melanoma-associated antigen MUC18, MUC18

Selected Validation Data



Purity of Recombinant Human CD146 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.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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