For Research Use Only

Recombinant Mouse CD146/MCAM protein (rFc Tag) (HPLC verified)

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Catalog Number: Eg2667

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Mouse CD146 protein Val24-Val563 (Accession# Q8R2Y2-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
84004

Accession:
Q8R2Y2-1

Predicted Molecular Mass:
85.8 kDa

SDS-PAGE:
100-110 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

CD146, also known as melanoma cell adhesion molecule (MCAM) or MUC18, originally identified as a biomarker of melanoma progression, is a transmembrane glycoprotein of 113-130 kDa, belonging to the immunoglobulin (Ig) superfamily. Structurally, it consists of five Ig domains, a transmembrane domain, and a cytoplasmic region. 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). In addition to the membrane-anchored form of CD146, a soluble form of CD146 (sCD146, 105 kDa) has also been found in human plasma and in the supernatant of cultured human endothelial cells.

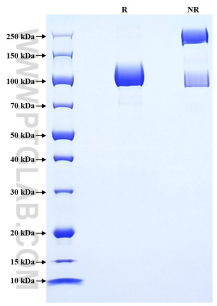
References

1. Sers C. et al. (1993). Proc Natl Acad Sci U S A.15;90(18):8514-8.
2. Keller T. et al. (2015). PLoS One. 20;10(5):e0127169.
3. Bardin N. et al. (1998). FEBS Lett. 2;421(1):12-4.
4. Bardin N. et al. (2009). Arterioscler Thromb Vasc Biol.29(5):746-53.
5. Bardin N. et al. (2006). Inflamm Bowel Dis.12(1):16-21.
6. Bardin N. et al. (2003). Thromb Haemost. 90(5):915-20.

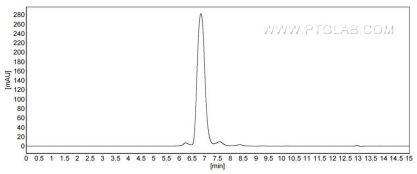
Synonyms

CD146, Cell surface glycoprotein MUC18, Gicerin, Mcam, Melanoma cell adhesion molecule

Selected Validation Data



Purity of Recombinant Mouse 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.



The purity of Mouse CD146 was greater than 90% as determined by SEC-HPLC.