

For Research Use Only

Recombinant Mouse Podoplanin/PDPN protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2861

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 Podoplanin protein Gln21-Lys133 (Accession# Q62011) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
14726

Accession:
Q62011

Predicted Molecular Mass:
37.9 kDa

SDS-PAGE:
43-63 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

Podoplanin (PDPN) is a transmembrane glycoprotein that plays a role in a variety of biological processes including regulation of blood-lymphatic vessel development, cerebral vascular pattern, and integrity, cell motility, tumorigenesis and metastasis, and mediates tumor cell-induced platelet aggregation in different cancer types. PDPN homologs are found in humans, mice, rats, dogs, and hamsters and are relatively conserved among species.

References

1. Ukaji T, et al. Cancer Sci. (2021). 112(6):2299-2313.
2. Krishnan H, et al. J Biol Chem. (2013). 288(17):12215-21.
3. Wang X, et al. Cancer Gene Ther. (2023). 30(2):345-357.
4. Astarita JL, et al. Front Immunol. (2012). 3:283.

Synonyms

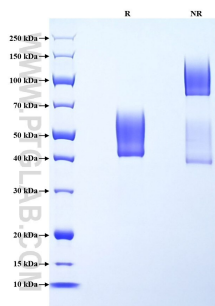
E11, Glycoprotein 38, Gp38, Ots8, OTS-8

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

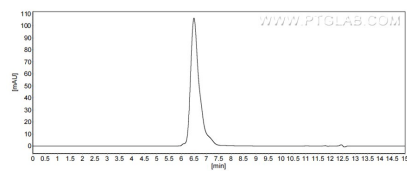
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Selected Validation Data



Purity of Recombinant Mouse Podoplanin 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 Podoplanin/PDPN was greater than 90% as determined by SEC-HPLC.