

For Research Use Only

Recombinant mouse PTPRJ/CD148 protein

Catalog Number: Eg2648



Basic Information

Species:
Mouse

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 Mouse PTPRJ/CD148 protein Arg29-Ile874 (Accession# Q64455) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

19271

Accession:

Q64455

Predicted Molecular Mass:

117.7 kDa

SDS-PAGE:

135-250 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

PTPRJ (Protein Tyrosine Phosphatase Receptor Type J), also known as CD148 or density-enhanced phosphatase-1 (DEP-1), belongs to the type III receptor-type PTP (RPTP) subfamily and has been identified as a negative regulator of insulin signaling in peripheral tissues and is overexpressed in obese mice. PtpRJ is the most abundant RPTP in platelets and megakaryocytes. Its structure consists of a single intracellular catalytic PTP domain, the transmembrane domain, and an extracellular domain composed of 9 fibronectin type III-like repeats. PtpRJ plays critical roles in retinocollicular projections by controlling the repulsive signal by Eph and c-Abl activities.

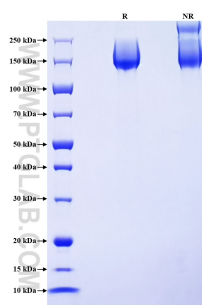
References

1. Shintani T, et al. (2017). Sci Rep. Sep 14;7(1):11627.
2. Yu Y, et al. (2018). J Neurosci. Sep 26;38(39):8345-8363.et al.
3. Marconi C,et al. (2019). Blood. Mar 21;133(12):1346-1357.
4. Ulke J, et al. (2024). J Neuroendocrinol. 36(12):e13446.

Synonyms

Byp, CD148, EC:3.1.3.48, HPTP beta-like tyrosine phosphatase, protein tyrosine phosphatase, receptor type, J

Selected Validation Data



Purity of Recombinant Mouse PTPRJ/CD148 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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.