

For Research Use Only

Recombinant Mouse Ptprij protein (rFc Tag)



Catalog Number: Eg2648

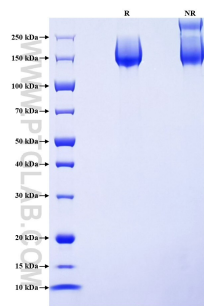
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Mouse Ptprij protein Arg29-Ile874 (Accession# Q64455) with a rabbit IgG Fc tag at the C-terminus. GeneID: 19271 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	Ptprij (Protein Tyrosine Phosphatase Receptor Type J), also known as 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. Ptprij 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. Ptprij 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	protein tyrosine phosphatase, receptor type, J, Ptprij		

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

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Selected Validation Data



Purity of Recombinant Mouse Ptpj 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.