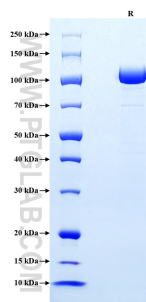


Recombinant Mouse Transferrin R/CD71 protein (rFc Tag)

Catalog Number: Eg3385

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Mouse Transferrin R protein Cys89-Phe763 (Accession# Q62351) with a rabbit IgG Fc tag at the N-terminus.</p> <p>GeneID: 22042</p> <p>Accession: Q62351</p> <p>Predicted Molecular Mass: 103.1 kDa</p> <p>SDS-PAGE: 95-125 kDa, reducing (R) conditions</p> <p>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.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>The transferrin receptor is a membrane glycoprotein whose only clearly defined function is to mediate cellular uptake of iron from a plasma glycoprotein, transferrin. Iron uptake from transferrin involves the binding of transferrin to the transferrin receptor, internalization of transferrin within an endocytic vesicle by receptor-mediated endocytosis and the release of iron from the protein by a decrease in endosomal pH. With the exception of highly differentiated cells, transferrin receptors are probably expressed on all cells but their levels vary greatly. Transferrin receptors are highly expressed on immature erythroid cells, placental tissue, and rapidly dividing cells, both normal and malignant.</p>		
References	<ol style="list-style-type: none">1. Chiappelli F. et al. (2024) Bioinformation. 20(3):208-211.2. D'Aprile S. et al. (2023) J Transl Med. 21(1):780.3. Liu X. et al. (2023) Asian J Pharm SCI. 18(4):100826.4. Grzywa T. et al. (2022) BLOOD. 140(Supple 1):8166-8167.		
Synonyms	CD71, Tfrc, TFR, TFR1, TR		

Selected Validation Data



Purity of Recombinant Mouse Transferrin R was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) 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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