

Recombinant Mouse Transferrin Receptor/TFRC Protein (His Tag)



Catalog Number:PKSM040505

Note: Centrifuge before opening to ensure complete recovery of vial contents.

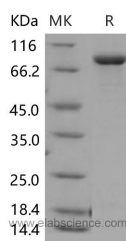
Description

Synonyms	Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; CD71; Tfrc;2610028K12Rik; AI195355;AI426448;AU015758;CD71;E430033M20Rik;Mtvr-1;Mtvr1;p90
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Cys 89-Phe 763
Accession	Q62351
Calculated Molecular Weight	78.3 kDa
Observed molecular weight	80 kDa
Tag	N-His

Properties

Purity	> 92 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

Transferrin receptor protein 1, also known as transferrin receptor, Trfr, p90, CD71 and TFRC, is a single-pass type II membrane protein which belongs to the peptidase M28 family and M28B subfamily. TFRC / CD71 is a membrane-bound protein expressed in larger amounts in proliferating. The specific expression of TFRC can represent a diagnostic tool or a therapeutic target in solid tumours expressing this antigen. Transferrin receptor is necessary for development of erythrocytes and the nervous system. TFRC / CD71 is regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2, to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic stimulation. TFRC / CD71 represents a marker of malignant transformation in the pancreas that could be applied as potential diagnostic and therapeutic target.

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