

Mouse Transferrin Receptor / TFRC / CD71 Protein (His Tag)

Catalog Number: 50741-M07H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

2610028K12Rik; AI195355; AI426448; AU015758; CD71;
E430033M20Rik; Mtvr-1; Mtvr1; p90; TFR; TFR1; TR; Trfr

Protein Construction:

A DNA sequence encoding the extracellular domain of mouse TFRC (Q62351) (Cys 89-Phe 763) was fused with a polyhistidine tag at the N-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant mouse TFRC comprises 694 amino acids and predicts a molecular mass of 78.3 kDa. The apparent molecular mass of mouse TFRC is approximately 80 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

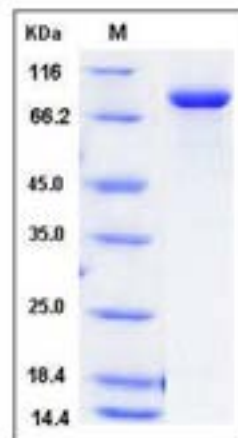
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

1. Douabin-Gicquel V., et al., 2001, Hum. Genet. 109:393-401. 2. Ryschich, E. et al., 2004, Eur J Cancer. 40 (9):1418-22. 3. Tosoni D., et al., 2005, Cell 123:875-888.

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