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Product Information

Recombinant Anti-Human tfrc Antibody

Cat. No.: **MOM-18319**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Mouse Antibody is specific to Human TFRC, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the heditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site.

Specific Activity

Tested positive against native antigen.

Target

TFRC

Immunogen

Tissue / cell preparation (Human). (KG1 acute myelogenous leukaemia cell line).

Source

Mouse

Species Reactivity

Human

Type

IgG

Expression Host

CHO

Purity

>95.0%, determined by analysis by RP-HPLC & analysis by SDS-PAGE.

Applications

Suitable for use in WB, ELISA, IP, FC, FuncS, Neut and most other immunological methods.

Storage

Store at 4°C for up to 3 months. For longer term storage aliquot into small volumes and store at -20°C.

ANTIGEN GENE INFOMATION

Gene Name

TFRC transferrin receptor (p90, CD71) [Homo sapiens]

Official Symbol

TFRC

Synonyms

TFRC; transferrin receptor (p90, CD71); transferrin receptor protein 1; CD71; TFR1; T9; TR; TFR; p90; TRFR

Gene ID

7037

mRNA Refseq

NM_001128148

Protein Refseq

NP_001121620

MIM

190010

UniProt ID

P02786

Chromosome Location

3q26.2-qter

Pathway

Clathrin derived vesicle budding, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

Function

Hsp70 protein binding; chaperone binding; peptidase activity; receptor activity; transferrin receptor activity;

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