

Product datasheet

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ARG70243 Human CD71 / Transferrin Receptor recombinant protein (ECD) (Histagged, C-ter)

Package: 100 μg Store at: -20°C

Summary

Product Description HEK293 expressed, His-tagged (C-ter) Human CD71 / Transferrin Receptor recombinant protein (ECD).

Tested Reactivity Hu

Tested Application Binding, SDS-PAGE

Target Name CD71 / Transferrin Receptor (ECD)

Species Human

A.A. Sequence Cys89 - Phe760 of Human CD71 / Transferrin Receptor (NP_001121620.1) with 6X His tag at the C-

terminus.

Expression System HEK293

Alternate Names TFR1; CD antigen CD71; CD71; T9; p90; TR; Trfr; Transferrin receptor protein 1; TRFR; sTfR; TfR1; TfR1;

TFR

Application Instructions

Application Note Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant

human Transferrin at 2 $\mu g/ml$ (100 $\mu l/well$) can bind Recombinant human TfR with a linear range of

4-17 ng/ml.

Properties

Form Powder

Purification Note 0.22 μm filter sterilized. Endotoxin level is 97% (by SDS-PAGE)

Buffer PBS (pH 7.4)

Reconstitution Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.

Storage instruction For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and

store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not

recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TFRC

Gene Full Name transferrin receptor

Function Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin

receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrinreceptor 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

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protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake (PubMed:26642240).

(Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo

virus. [UniProt]

Calculated Mw 85 kDa

PTM N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated.

Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR).

Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.

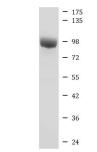
[UniProt]

Cell membrane; Single-pass type II membrane protein. Melanosome. Note=Identified by mass

spectrometry in melanosome fractions from stage I to stage IV. Transferrin receptor protein 1, serum

form: Secreted. [UniProt]

Images



ARG70243 Human CD71 / Transferrin Receptor recombinant protein (ECD) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70243 Human CD71 / Transferrin Receptor recombinant protein (ECD) (His-tagged, C-ter).

Human CD71 / Transferrin Receptor recombinant protein (ECD) (His-tagged, C-ter)