

ARG82585 Human CD71 / Transferrin Receptor ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG82585 Human CD71 / Transferrin Receptor ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD71 / Transferrin Receptor in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	This kit could assay both natural and recombinant Human CD71 / Transferrin Receptor. No significant cross-reactivity or interference was observed in the following samples: Human: Holo-Transfected, errin, IFN gamma, IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL17A, IL18, IL21, IL22, IL23, MCP1, TFR2, TGF beta 1, TNF alpha and VEGF. Mouse: GM-CSF, IFN gamma, IL1 beta, IL2, IL4, IL6, IL10, IL17A, TFR and TNF alpha. Rat: IFN gamma, IL1 beta, IL4, IL6, IL10 and TNF alpha.
Target Name	CD71 / Transferrin Receptor
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 1.9% Inter-Assay CV: 2.8%
Alternate Names	TFR1; CD antigen CD71; CD71; T9; p90; TR; Trfr; Transferrin receptor protein 1; TRFR; sTfR; TfR1; TfR; TFR

Application Instructions

Assay Time	~ 3.5 hours
------------	-------------

Properties

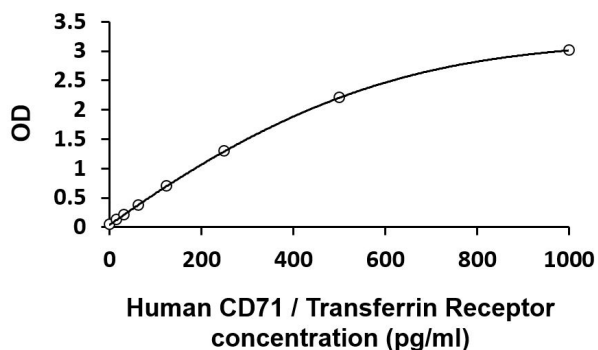
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TFRC
-------------	------

Gene Full Name	transferrin receptor
Background	This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]
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 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 hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. [UniProt]
Highlight	Related products: CD71 antibodies ; CD71 ELISA Kits ; CD71 Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
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]
Cellular Localization	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



ARG82585 Human CD71 / Transferrin Receptor ELISA Kit standard curve image

ARG82585 Human CD71 / Transferrin Receptor ELISA Kit results of a typical standard run with optical density reading at 450 nm.