Datasheet for ABIN4949192

Transferrin Receptor 2 Protein (TFR2) (AA 103-798) (Fc Tag)

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Overview

Quantity:	50 µg
Target:	Transferrin Receptor 2 (TFR2)
Protein Characteristics:	AA 103-798
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin Receptor 2 protein is labelled with Fc Tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 103-798
Characteristics:	This protein carries a mouse IgG1 Fc tag at the N-terminus, and has a calculated MW of 103.2 kDa. The predicted N-terminus is Ile. The reducing (R) protein migrates as 116 kDa in SDS-PAGE due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	Transferrin Receptor 2 (TFR2)
Alternative Name:	Transferrin R2 (TFR2 Products)

Target Details

Background:	Transferrin receptor protein 2 (TFR2) is a single-pass type II membrane protein with a protease associated (PA) domain, an M28 peptidase domain and a transferrin receptor-like dimerization domain. The mutations in TFR2 gene have been associated with hereditary hemochromatosis type III. Furthermore, TFR2 is involved in the uptake of transferrin-bound iron into cells by endocytosis, although its role is minor compared to transferrin receptor 1.
Molecular Weight:	101.1 kDa
NCBI Accession:	NP_056614
UniProt:	Q9JKX3
Pathways:	Transition Metal Ion Homeostasis

Application Details

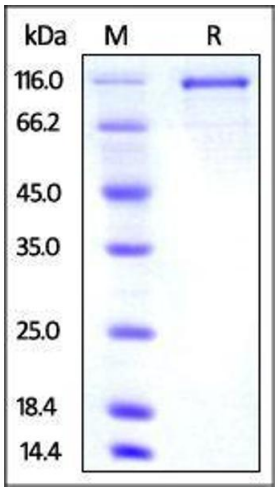
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Publications

Product cited in:	Stocki, Szary, Rasmussen, Demydchuk, Northall, Logan, Gauhar, Thei, Moos, Walsh, Rutkowski: " Blood-brain barrier transport using a high affinity, brain-selective VNAR antibody targeting transferrin receptor 1." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 35, Issue 2, pp. e21172, (2021) (PubMed).



SDS-PAGE

Image 1. Mouse Transferrin R2, mouse IgG1 Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.