

Product Name: KD-Validated Transferrin Receptor Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00316

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 84.9kDa

Antigen Information

Gene Name	TFRC
Alternative Names	TFRC; Transferrin Receptor; P90; CD71; TFR1; Transferrin Receptor Protein 1; T9; TR; Transferrin Receptor (P90, CD71); CD71 Antigen; IMD46; TRFR; Tfr1; Trfr; TFR; Tfr
Gene ID	7037.0
SwissProt ID	P02786
Immunogen	Recombinant protein of human TFRC

Background

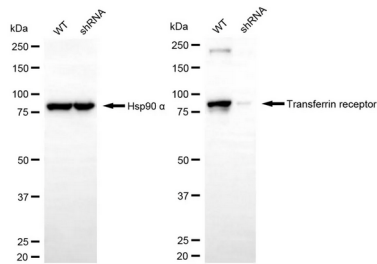
This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been

identified. [provided by RefSeq, Sep 2015]

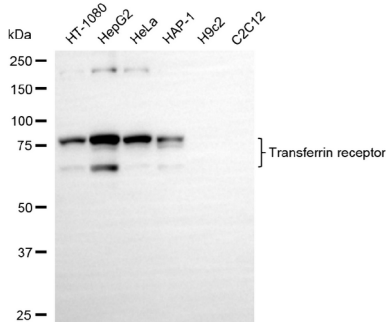
Research Area

Cardiovascular, Immunology, Stem Cells, Cancer, Metabolism

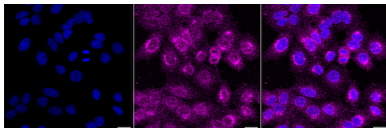
Image Data



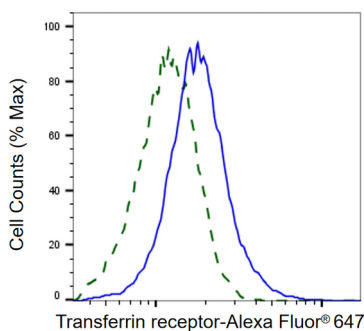
Western blotting analysis using transferrin receptor antibody (KVA00316). Transferrin receptor expression in wild-type (WT) and transferrin receptor (TFRC) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with transferrin receptor antibody (KVA00316, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



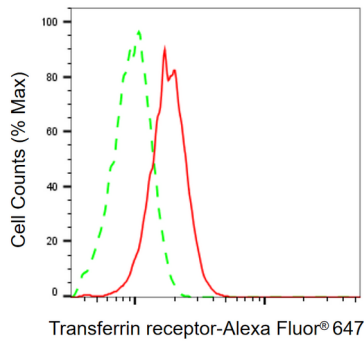
Western blotting analysis using transferrin receptor antibody (KVA00316). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transferrin receptor antibody (KVA00316, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Transferrin receptor antibody (KVA00316, 1:1,000). Nuclei were stained blue with DAPI; Transferrin receptor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Transferrin receptor knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Transferrin receptor antibody (KVA00316, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Transferrin receptor expression in HepG2 cells using Transferrin receptor antibody (KVA00316, 1:2,000). Green, isotype control; red, Transferrin receptor.