

Anti-Transferrin Receptor 2/TFR2 Antibody

Catalog Number: PA1901

About Tfr2

TFR2 (Transferrin receptor protein 2), is a protein that in humans is encoded by the TFR2 gene. This gene is a member of the transferrin receptor-like family and encodes a single-pass type II membrane protein with a protease associated (PA) domain, an M28 peptidase domain and a transferrin receptor-like dimerization domain. By radiation hybrid analysis, Kawabata et al. (1999) mapped the TFR2 gene to chromosome 7q22. The majority of hepatic iron uptake under normal circumstances is transferrin-mediated. However, expression of TFRC in hepatocytes, as in other nonreticuloendothelial cell types, is downregulated in response to increased intracellular iron. As a consequence, TFRC expression in liver is undetectable in hereditary hemochromatosis patients with hepatic iron loading. Nonetheless, hepatic iron loading in hemochromatosis patients is progressive. Fleming et al. (2000) provided support for a mechanism that involves the uptake of transferrin-bound iron by TFR2.

Overview

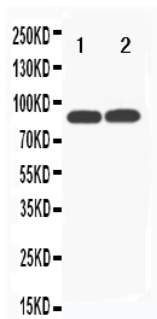
Product Name	Anti-Transferrin Receptor 2/TFR2 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Transferrin Receptor 2/TFR2 Antibody catalog # PA1901. Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9JKX3

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Transferrin Receptor 2, different from the related rat sequence by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized

Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Mouse, Rat

Anti-Transferrin Receptor 2/TFR2 Antibody (PA1901) Images



Anti-Transferrin Receptor 2 antibody, PA1901, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Mouse Liver Tissue Lysate

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