

TFR2 Polyclonal Antibody

Catalog No :	YN2090
Reactivity :	Human;Rat;Mouse
Applications :	WB;ELISA
Target :	TFR2
Gene Name :	TFR2
Protein Name :	Transferrin receptor protein 2 (TfR2)
Human Gene Id :	7036
Human Swiss Prot No :	Q9UP52
Mouse Swiss Prot No :	Q9JKX3
Rat Swiss Prot No :	B2GUY2
Immunogen :	Synthesized peptide derived from part region of human protein
Specificity :	TFR2 Polyclonal Antibody detects endogenous levels of protein.
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 88kD

Background : This gene encodes a single-pass type II membrane protein, which is a member of the transferrin receptor-like family. This protein mediates cellular uptake of transferrin-bound iron, and may be involved in iron metabolism, hepatocyte function and erythrocyte differentiation. Mutations in this gene have been associated with hereditary hemochromatosis type III. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011],

Function : disease:Defects in TFR2 are a cause of hereditary hemochromatosis type 3 (HFE3) [MIM:604250]. HFE3 is a disorder of iron hemostasis resulting in iron overload and has a phenotype indistinguishable from that of hereditary hemochromatosis (HH). HH is characterized by abnormal intestinal iron absorption and progressive increase of total body iron, which results in midlife in clinical complications including cirrhosis, cardiopathy, diabetes, endocrine dysfunctions, arthropathy, and susceptibility to liver cancer. Since the disease complications can be effectively prevented by regular phlebotomies, early diagnosis is most important to provide a normal life expectancy to the affected subjects.,function:Mediates cellular uptake of transferrin-bound iron in a non-iron dependent manner. May be involved in iron metabolism, hepatocyte function and erythrocyte differentiation.,miscellaneous:The vari

Subcellular Location : Cell membrane; Single-pass type II membrane protein.; [Isoform Beta]: Cytoplasm . Lacks the transmembrane domain. Probably intracellular.

Expression : Predominantly expressed in liver. While the alpha form is also expressed in spleen, lung, muscle, prostate and peripheral blood mononuclear cells, the beta form is expressed in all tissues tested, albeit weakly.

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