

For Research Use Only

Transferrin Receptor 2/TFR2 Polyclonal antibody, PBS Only

Catalog Number: 32381-1-PBS



Basic Information

Catalog Number:

32381-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG37959

GenBank Accession Number:

BC142630

GeneID (NCBI):

7036

UNIPROT ID:

Q9UP52

Full Name:

transferrin receptor 2

Calculated MW:

801 aa, 89 kDa

Observed MW:

88-97 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Transferrin Receptor 2 (TFR2) is a type II transmembrane glycoprotein that plays a crucial role in iron homeostasis. It is highly homologous to Transferrin Receptor 1 (TFR1) and is primarily expressed in the liver and erythroid precursor cells. TFR2 is involved in the regulation of hepcidin, a hormone that controls iron absorption and distribution in the body. It helps mediate the cellular uptake of iron-bound transferrin, although its affinity for iron is lower than that of TFR1 (PMID: 24658816). It is more involved in sensing iron levels and regulating hepcidin expression rather than direct iron uptake. TFR2 is predominantly expressed in hepatocytes (liver cells) and erythroid precursors (cells that give rise to red blood cells). It is also found in the enterocytes of the small intestine (PMID: 29969719). In the liver, TFR2 acts as a sensor for circulating iron-bound transferrin and helps regulate hepcidin production. Hepcidin, in turn, controls iron absorption from the diet and iron release from macrophages. The molecular weight of TFR2 is 88 kDa, its observed molecular weight is 88-97 kDa.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

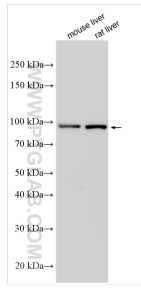
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

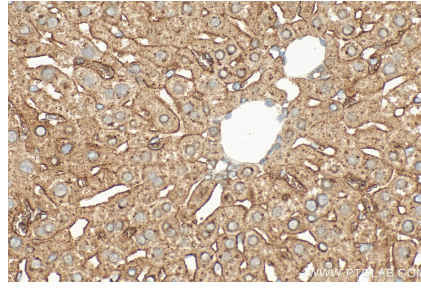
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32381-1-AP (TFR2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32381-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 32381-1-AP (Transferrin Receptor 2/TFR2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 32381-1-PBS in a different storage buffer formulation.