Transferrin Receptor 2/TFR2 Polyclonal antibody

Catalog Number:32381-1-AP

	Catalog Number: 32381-1-AP	GenBank Accession Number: BC142630	Purification Method: Antigen affinity Purification		
	Size: 150ul, Concentration: 400 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG37959	GenelD (NCBI):	Recommended Dilutions:		
		7036	WB 1:1000-1:4000		
		UNIPROT ID: IHC 1:200-1:800 Q9UP52	IHC 1:200-1:800		
			Full Name: transferrin receptor 2 Calculated MW:		
		801 aa, 89 kDa			
		Observed MW:			
		88-97 kDa			
		Applications	Tested Applications:	Positive C	Controls:
			WB, IHC, ELISA	WB : mou	se liver tissue, rat liver tissue
Species Specificity: human, mouse, rat	IHC : mou		IHC : mouse liver tissue,		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
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 -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50				
	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage			
*** 20ul sizes contain 0.1% BSA	Auquoting is unnecessary for -20 C s	torage			

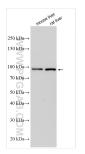
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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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. Immunohistochemical analysis of paraffinembedded 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).