Product datasheet

Anti-Transferrin/TF Antibody

Catalog Number: *PB9827*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Transferrin/TF Antibody
Gene Name	TF
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Transferrin (20-49aa VPDKTVRWCAVSEHEATKCQSFRDHMKSVI), different from the related mouse and rat sequences by five amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	76KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry(Paraffin-embedded Section): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Transferrins are iron-binding blood plasma glycoproteins that control the level of free iron in biological fluids. In humans, it is encoded by the TF gene. Transferrin consists of a polypeptide chain containing 679 amino acids in humans. The protein is composed of alpha helices and beta sheets to form two domains. The N- and C- terminal sequences are represented by globular lobes and between the two lobes is an iron-binding site. Transferrin is a glycoprotein that binds iron very tightly but reversibly. Although iron bound to transferrin is less than 0.1% (4 mg) of the total body iron, it is the most important iron pool, with the highest rate of turnover (25 mg/24 h). And Transferrin has a molecular weight of around 80 kDa and contains 2 specific high-affinity Fe(III) binding sites. The affinity of transferrin for Fe(III) is extremely high (1023 M 1 at pH 7.4) but decreases progressively with decreasing pH below neutrality.

Selected Validation Data

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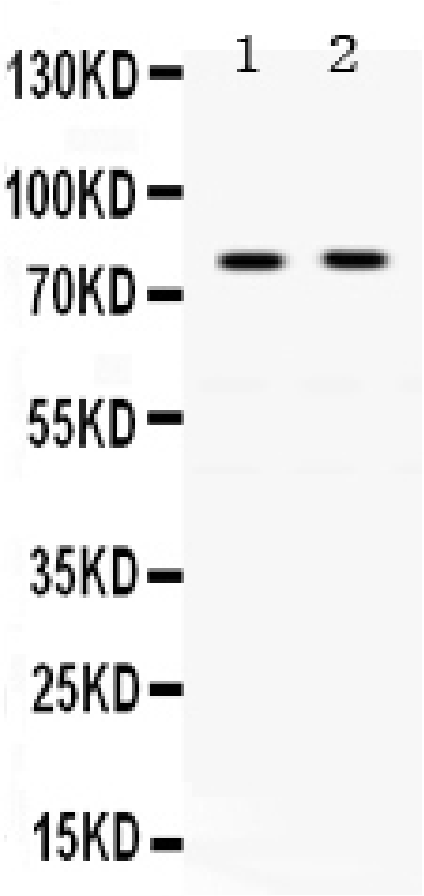

Figure 1. Western blot analysis of Anti-TF antibody (PB9827). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat thymus tissue lysates,Lane 2: Human placenta tissue lysates,Use rabbit Anti-TF 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TF at approximately 77KD. The expected band size for TF is at 77KD.

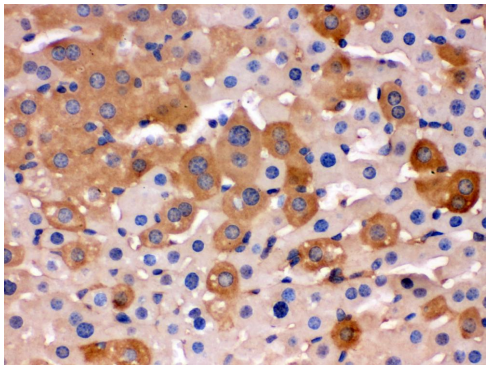

Figure 2. IHC analysis using Anti-TF antibody (PB9827) detected in paraffin-embedded section of mouse liver tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.