Anti-Transferrin/TF Antibody (Clone#7I11B10)

Catalog Number: M00094-5



BOSTER BIOLOGICAL TECHNOLOGY

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Basic Information	
Product Name	Anti-Transferrin/TF Antibody (Clone#7I11B10)
Gene Name	TF
Source	Mouse
Isotype	lgG2b
Species Reactivity	human, mouse, rat
Tested Application	WB
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	77KD
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C 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

Product datasheet

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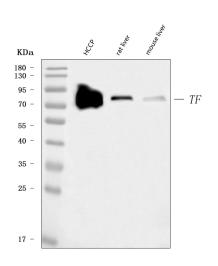


Figure 1. Western blot analysis of anti-Transferrin/TF antibody (M00094-5). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates,

Lane 2: rat liver tissue lysates,

Lane 3: mouse liver tissue lysates.

Use mouse anti- Transferrin/TF 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for Transferrin/TF at approximately 77KD. The expected band size for Transferrin/TF is at 77KD.