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Datasheet for 600-403-034

Human Transferrin Antibody Peroxidase Conjugated

Overview

Description:	Anti-Human Transferrin (RABBIT) Antibody Peroxidase Conjugated - 600-403-034
Item No.:	600-403-034
Size:	500 µg
Applications:	ELISA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Human transferrin is encoded by the TF gene and is an iron-binding blood plasma glycoprotein that controls the level of free iron in biological fluids. Human transferrin binds iron very tightly but reversibly. Human transferrin is the most important iron pool in mammals. Human transferrin has a molecular weight of around 80 kDa and contains 2 specific high-affinity Fe(III) binding sites. The affinity of Human transferrin for Fe(III) is extremely high but decreases progressively with decreasing pH below neutrality. Human Transferrin also plays a role in the immune system, creating environments low in iron for which many pathogenic bacteria are unable to thrive.
Synonyms:	rabbit anti-Transferrin antibody peroxidase conjugation, HRP conjugated rabbit anti-Transferrin antibody, Beta 1 metal binding globulin antibody, PRO1400 antibody, Serotransferrin antibody, Siderophilin antibody, TF antibody
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TF
Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Human Transferrin
Purity/Specificity:	This reagent was purified from pooled rabbit sera obtained from rabbits immunized with Human Transferrin. Purification was by Protein A Sepharose Fast Flow followed by POROS EP antigen resin affinity purification. The purified antibody was then conjugated to horseradish peroxidase and subsequently purified followed by exhaustive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, purified Human Transferrin and Human Serum.
Relevant Links:	• NCBI - AAH59367.1 • UniProtKB - P02787 • GeneID - 7018

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Human Transferrin Peroxidase conjugated antibody has been tested by ELISA and is designed for Immunoblotting, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:3,000 - 1:12,000
IHC:	User Optimized
WB:	1:300 - 1:1,000

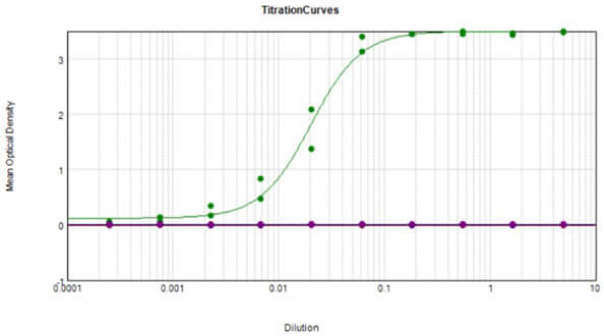
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA Results of Rabbit Anti-Human Transferrin HRP Conjugated Antibody tested against purified human transferrin (Green Line). Each well was coated in duplicate with 1.0 µg of human transferrin (p/n 009-0134). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Anti-Human Transferrin HRP Conjugated Antibody and TMB substrate (p/n TMBE-1000).

Disclaimer

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