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Datasheet for 209-4634-0100

Transferrin Antibody Biotin Conjugated

Overview

Description:	Anti-Transferrin (Human Serum) (RABBIT) Antibody Biotin Conjugated - 209-4634-0100
Item No.:	209-4634-0100
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-Transferrin Antibody, Biotin Conjugated is specific for the transferrin protein. Transferrins are iron-binding blood plasma glycoproteins which regulate the level of free iron in biological fluids. When free of bound iron, transferrin is referred to as apotransferrin. Human transferrin is encoded by the TF gene and is mainly synthesized in the liver, but other sources, such as the brain produce it. The main role of transferrin is delivery of iron from absorption centers in the duodenum and macrophages to all tissues. Membrane receptors on erythroid precursors in the bone marrow avidly bind transferrin. Hereditary hemochromatosis and anemia are well establish disorders involving defects in transferrin transport defects. Anti-Transferrin Antibody, Biotin Conjugated is suitable for use in cardiovascular research as well as other basic research.
Synonyms:	rabbit anti-Transferrin Antibody Biotin Conjugation, Apotransferrin antibody, Beta 1 metal binding globulin antibody, DKFZp781D0156 antibody, PRO1400 antibody, PRO1557 antibody, PRO2086 antibody, Serotransferrin precursor antibody, Siderophilin antibody, TF antibody
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TF
Reactivity:	Human

Immunogen Type:	Native Protein
Immunogen:	Transferrin [Human Serum]
Purity/Specificity:	Anti-Transferrin Antibody, Biotin Conjugated, is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Transferrin [Human Serum]. Cross reactivities against Transferrin from other sources may occur but have not been specifically determined.
Relevant Links:	• 209-4634 SDS • GeneID - 7018 • NCBI - AAH59367.1 • UniProtKB - P02787

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Transferrin Antibody Biotin Conjugated has been tested for use in Immunoblotting and ELISA and is suitable for immunohistochemistry, immunofluorescence microscopy, as well as other antibody based assays. Optimal concentrations should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:150,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

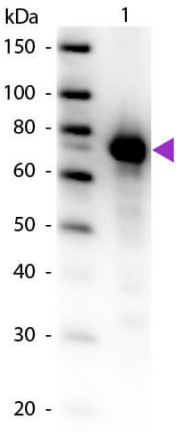
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL

Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

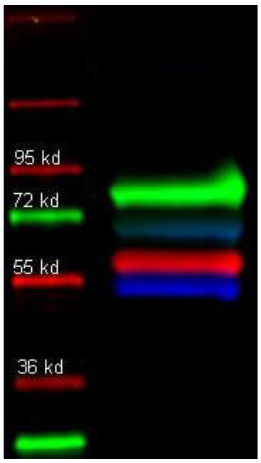
Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 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



Western Blot
Western Blot of Biotin conjugated Rabbit Anti-Transferrin primary antibody. Lane 1: human depleted serum. Lane 2: None. Load: Unknown. Primary antibody: Biotin conjugated Rabbit Anti-Transferrin at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 74 kDa, 74 kDa for Transferrin. Other band(s): None.

Western Blot
Western Blot of Rabbit anti-Transferrin antibody. Lane 1: molecular weight. Lane 2: anti-Transferrin (green), Goat-anti-Alpha-1-Anti-Trypsin, and Mouse-a-GST were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 35 µg per lane. Primary antibody: Transferrin antibody at 1:1000 for overnight at 4°C. Secondary antibody: DyLight549 Donkey anti-Rabbit IgG (green), DyLight 488 Donkey anti-Mouse IgG (blue), and DyLight 649 Donkey anti-Goat IgG (red) at 1:10,000 for 45 min at RT. Block: 2.5% Blotto, 2.5% BSA, 0.02% Tween over night at 4°C. Other band(s): none.



Western Blot

Western Blot of primary and Dylight conjugated secondary antibodies. Lane 1: molecular weight. Lane 2: Rabbit anti-Human transferrin (green); Alpha 1 anti trypsin (red); and Human IgG (Blue) in a multiplex fluorescent western blot of human serum. Primary antibody: Each primary antibody was diluted to 1:1000 for 2 hrs at RT. Secondary antibody: Rabbit IgG (H&L) Antibody DyLight™ 649 Conjugated (green), Goat IgG (H&L) Antibody DyLight™ 549 Conjugated (red), Mouse IgG (H&L) Antibody DyLight™ 488 Conjugated (blue)secondary antibody at 1:10,000 for 45 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting - MB-070 for 1hr at 4°C. Other band(s): none.

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