

Datasheet for 209-4134S

Transferrin Antibody

Overview

Description:	Anti-Transferrin (Human Serum) (RABBIT) Antibody - 209-4134S
Item No.:	209-4134S
Size:	25 µL
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Transferrin Antibody detects transferrin protein. Transferrins are iron binding transport proteins which can bind two Fe ³⁺ ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. Anti-transferrin Antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.
Synonyms:	rabbit anti-Transferrin Antibody, 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
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TF
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Transferrin Antibody was produced by repeated immunizations with human serum Transferrin protein.

Purity/Specificity: Anti-Transferrin Antibody 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-Rabbit Serum as well as purified and partially purified Transferrin [Human Serum]. Cross reactivity against Transferrin from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P02787](#)
- [GeneID - 7018](#)
- [NCBI - AAH59367.1](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-Transferrin Antibody has been tested in western blotting, ELISA and IHC. Researchers should determine optimal titers for applications that are not stated below.

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: 1:500 - 1:10,000

WB: 1:2,000 - 1:10,000

Formulation

Physical State: Liquid (sterile filtered)

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: None

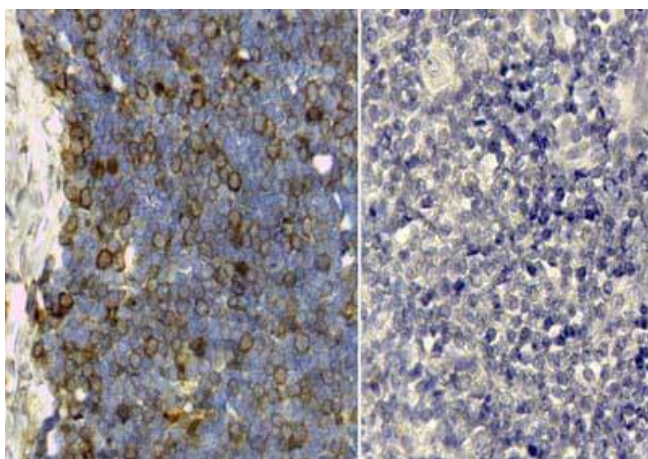
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

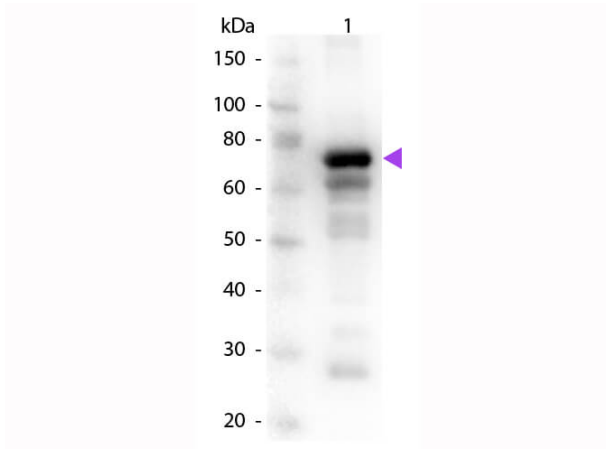
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit anti human Transferrin antibody. Tissue: Proliferant, cycling human thymus. Antigen Retrieval: HIER pH6.2. Staining: diffuse cytoplasmic and membrane staining. Right: Transferrin antibody 209-4134 at 1:100. Left: Normal Rabbit IgG Neg Ctrl.



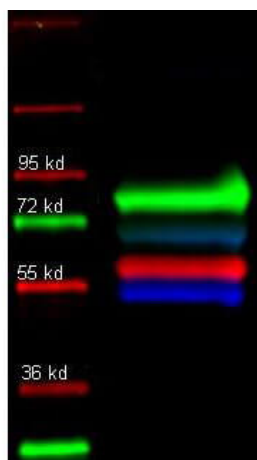
Western Blot

Western Blot of Rabbit Anti-Transferrin primary antibody. Lane 1: Human Transferrin. Lane 2: None. Primary antibody: Transferrin primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 76-81 kDa. 76 kDa for Transferrin. Other band(s): Transferrin slice variants and isoforms.



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: IRdye blocking buffer (MB-070) 1hr at 4°C. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.