

Datasheet for 109-4134

Transferrin Antibody

Overview

Description:	Anti-Transferrin (Human Serum) (RABBIT) Antibody - 109-4134
Item No.:	109-4134
Size:	2 mL
Applications:	ELISA, 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, Sero-transferrin precursor antibody, Siderophilin antibody, TF antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Transferrin [Human Serum]

Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Transferrin [Human Serum]. Cross reactivity against Transferrin from other tissues and species may occur but have not been specifically determined.
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Application Details

Tested Applications:	ELISA, WB
Application Note:	This product has been tested in Western Blot and assayed against 1.0 ug of Transferrin [Human Serum] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:50,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IP:	User Optimized
WB:	User Optimized

Formulation

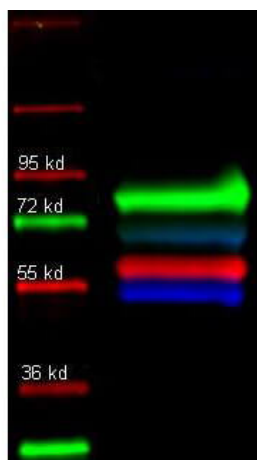
Physical State:	Lyophilized
Concentration:	82 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

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

Rockland primary and Dylight conjugated secondary antibodies were used to detect: Human transferrin (1° 109-4134, 2° 611-743-127 green); Alpha 1 anti trypsin (1° 100-101-147, 2° 605-742-125 red); and Human IgG (1° 109-3102, 2° 610-741-124 Blue) in a multiplex fluorescent western blot of human serum. Each primary antibody was diluted to 1:1000 in Blocking Buffer for Fluorescent Western Blotting - (p/n MB-070) and incubated for 2 hrs at RT. Blot was 3X in TTBS, 1X in TBS and probed with secondary antibodies diluted 1:10000 in MB-070 and incubated ~ 1hr at 4 degrees.

After wash 2X in TTBS and 2X in TBS, blot was rinsed 2X in MeOH, dried and imaged using the Biorad VersaDoc4000.

Western Blot

Rockland Rabbit anti-Transferrin (p/n 109-4134, lot 3033, green), Goat-anti-Alpha-1-Anti-Trypsin (p/n 100-101-147, lot 5842, red), and Mouse-a-GST (p/n 200-301-200, lot 24882, blue) were used in a multiplex system to detect target proteins under reducing (R) conditions (+4% BME) in albumin depleted human serum with 320 ng of added GST. Sample was run by SDS-PAGE, transferred to 0.2 um PVDF using the BioRad Trans-Blot Turbo and blocked in 2.5% Blotto, 2.5% BSA, 0.02% Tween over night at 4°C. Membrane was probed with three primary antibodies at 1:1000 dilution in (p/n MB-070) overnight at 4°C. Detection shown was using DyLight549 Donkey anti-Rabbit IgG (p/n 611-742-127, lot 21100), DyLight 488 Donkey anti-Mouse IgG (p/n 610-741-124, lot 21095), and DyLight 649 Donkey anti-Goat IgG (p/n 605-743-125, lot 20834) at 1:10000 in (p/n MB-070) 30 min RT. Blots were washed, rinsed in methanol, dried and Images were collected using the BioRad VersaDoc System.

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.