

Product Datasheet

TfR (Transferrin R) Antibody (OX26) - BSA Free NB200-585-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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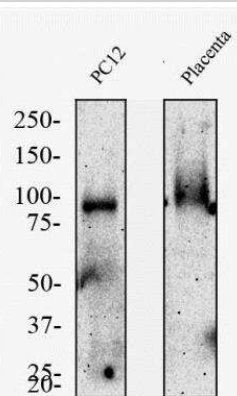
NB200-585-0.1mg

TfR (Transferrin R) Antibody (OX26) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OX26
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse TfR (Transferrin R) Antibody (OX26) - BSA Free (NB200-585) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-TfR (Transferrin R) Antibody: Cited in 18 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7037
Gene Symbol	TFRC
Species	Mouse, Rat
Marker	Recycling Endosome Marker
Specificity/Sensitivity	Labels dividing cells of various types but also binds to a number of non-dividing normal tissues and endothelium of brain capillaries.
Immunogen	PHA activated rat lymphocytes.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:50-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Flow (Intracellular), CyTOF-ready
Application Notes	This antibody is CyTOF ready.

Images

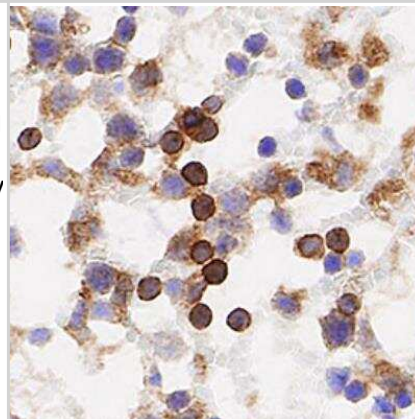
Western Blot: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Total protein from rat adrenal gland cells (PC12) and rat placenta was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2 ug/ml anti-CD71 in 1% milk, and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



Immunocytochemistry/Immunofluorescence: TfR (Transferrin R) Antibody (OX26) [NB200-585] - PC-12 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti TfR/Transferrin R (OX26) NB200-585 at a 1:100 dilution overnight at 4C and detected with an anti-mouse DyLight 488 (green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (red) at a 1:200 dilution. Nuclei were counterstained with DAPI (blue). Cells were imaged using a 40X objective.



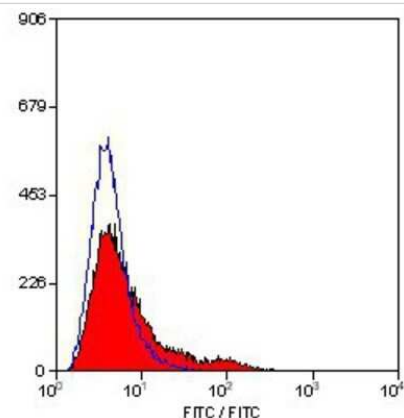
Immunohistochemistry-Paraffin: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Analysis of FFPE mouse spleen using TfR (OX26) antibody at 1:50 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Plasma membrane staining was observed. Staining was performed by Histowiz.



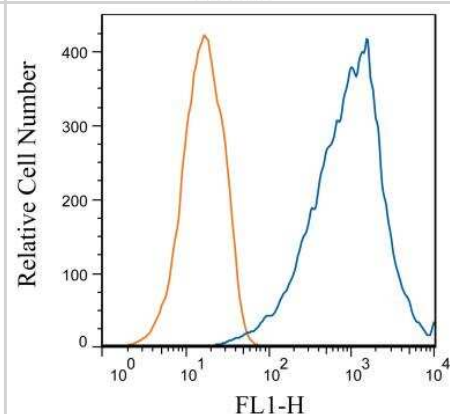
Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Analysis using the Biotin conjugate of NB200-585. Staining of mouse spleen.



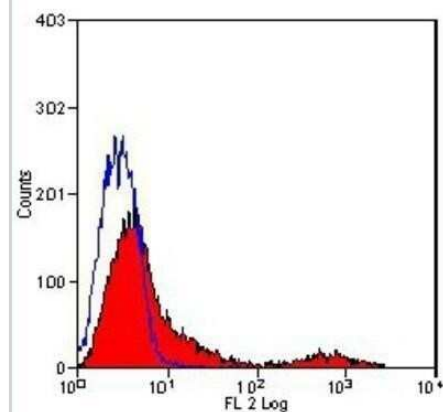
Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Staining of rat spleen lymphocytes with mouse anti rat CD71.



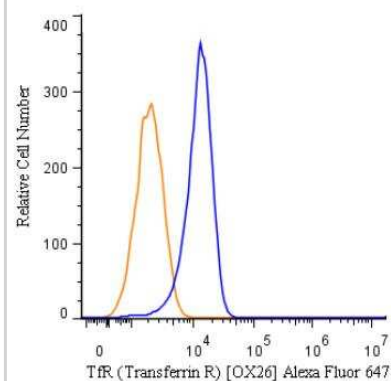
Flow (Intracellular): TfR (Transferrin R) Antibody (OX26) [NB200-585] - PC-12 cells were stained with NB200-585 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by DyLight488-conjugated anti-mouse secondary antibody.



Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Staining of rat spleen cells with mouse anti rat CD71: RPE.

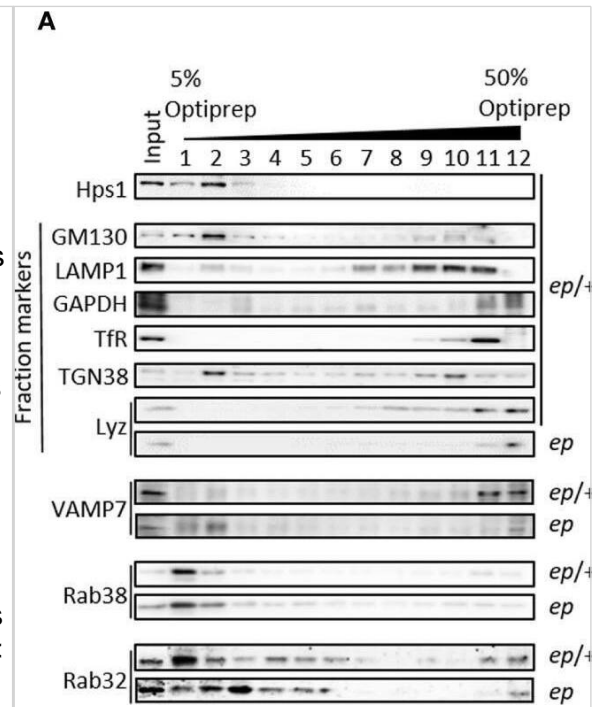


Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - An intracellular stain was performed on PC12 cells with TfR (Transferrin R) [OX26] Antibody NB200-585AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



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Protein level and subcellular content analysis of v-SNARE and Rab proteins in mice crypts. (A) Representative image of 5~50% Optiprep gradient of ep/+ and ep mice small intestine crypts. VAMP7 mainly appears at the 11th and 12th fractions labeled by lysozyme and endosomal component TfR and a second peak appears at the first two fractions labeled by GM130 and TGN38, while it increases in the 4th fraction in ep crypts. Rab38 mainly appears at the first two fractions of both genotypes while its concentration increases in the middle fragments in ep crypts. Rab32 has similar distributional pattern as Rab38 but more widely distributed in 3rd~6th fractions, but less in the 11th fraction labeled by TfR in ep crypts. (B) Statistical analysis of Rab38 distribution in (A). In ep crypt, the increase of Rab38 in the middle density fragments is significant (the 3rd~5th fractions, ep/+ crypts 9%, ep crypts 16%, * $p < 0.05$). (C) Statistical analysis of Rab32 distribution in (D). Rab32 in ep crypts significantly decreases at the low density fragment (the 1st fraction: ep/+ crypts 25%, ep crypts 16%, * $p < 0.05$) and at the 9th fraction (ctrl 4%, ep 2%, * $p < 0.05$). (D) Statistical analysis of VAMP7 distribution in (A). VAMP7 in ep crypts significantly increases in TGN38 and GM130 enriched fraction (the 2nd fraction, ctrl crypts 17%, ep crypts 28%, * $p < 0.05$) and the 4th fraction (ep/+ crypts 2%, ep crypts 6%, ** $p < 0.01$), and decreases in the RE enriched 11th fraction (ep/+ crypts 18%, ep crypts 5%, * $p < 0.05$). 4 mice of each genotype were analyzed, values are means +/- s.e.m. of three replicates of immunoblotting data. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33224134>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Laitinen MK, Parry MC, Morris GV et al. Chondrosarcoma of the Femur: Is Local Recurrence Influenced by the Presence of an Extrasosseous Component? *Cancers* 2024-01-15 [PMID: 38254852]

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Crook K, Hunt SV. Enrichment of early fetal-liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy-1, and MRC-OX82. *Dev Immunol.* [PMID: 8924759] (FLOW, Rat)

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Hill JM, Ruff MR, Weber RJ, Pert CB. Transferrin receptors in rat brain: neuropeptide-like pattern and relationship to iron distribution. *Proc Natl Acad Sci U S A.* 1985-07-01 [PMID: 2989832]

Opstelten D, Deenen GJ, Rozing J, Hunt SV. B lymphocyte-associated antigens on terminal deoxynucleotidyl transferase-positive cells and pre-B cells in bone marrow of the rat. *J Immunol.* 1986-07-01 [PMID: 3086459]

Perry VH, Gordon S. Modulation of CD4 antigen on macrophages and microglia in rat brain. *J Exp Med.* 1987-10-01 [PMID: 2443599] (IHC-Fr, Rat)

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Chignola R, Colombatti M, Dell'Arciprete L et al. Distribution of endocytosed molecules to intracellular acidic environments correlates with immunotoxin activity. *Int J Cancer.* 1990-12-15 [PMID: 2123478]

Cox JH, Lamb JR, Bal V et al. The phenotypic and molecular characterization of Nb2 lymphoma cells activated with IL-2 and human growth hormone. *Immunology.* 1989-01-01 [PMID: 15493267] (FLOW, Rat)

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Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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