

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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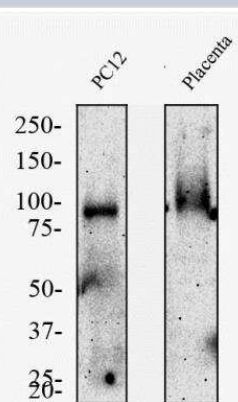
NB200-585-0.1mg

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

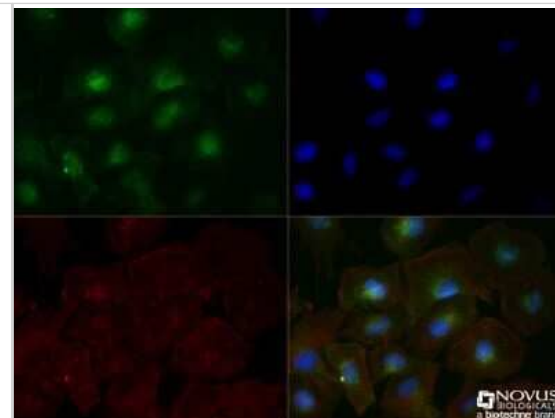
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OX26
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
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, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, 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

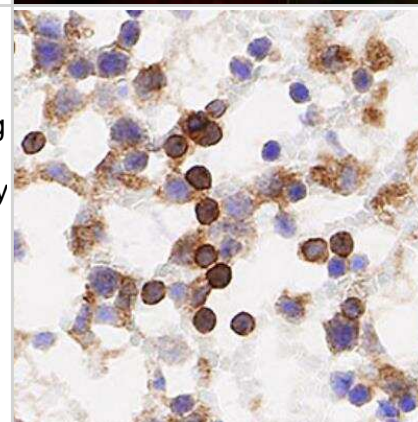
Western Blot: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Total protein from rat adrenal gland cells (PC12) and rat placenta was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2 ug/ml anti-CD71 in 1% milk, and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



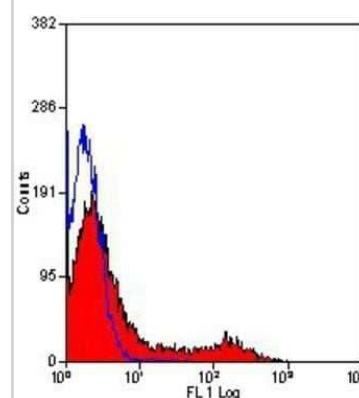
Immunocytochemistry/Immunofluorescence: TfR (Transferrin R) Antibody (OX26) [NB200-585] - PC-12 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti TfR/Transferrin R (OX26) NB200-585 at a 1:100 dilution 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.



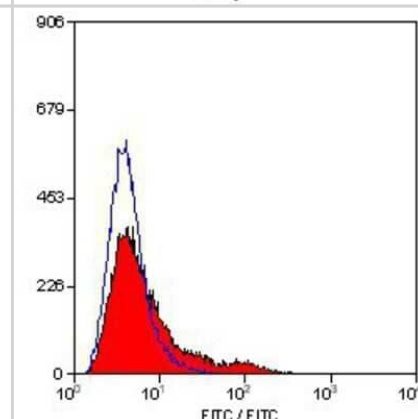
Immunohistochemistry-Paraffin: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Analysis of FFPE mouse spleen using TfR (OX26) antibody at 1:50 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) 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.



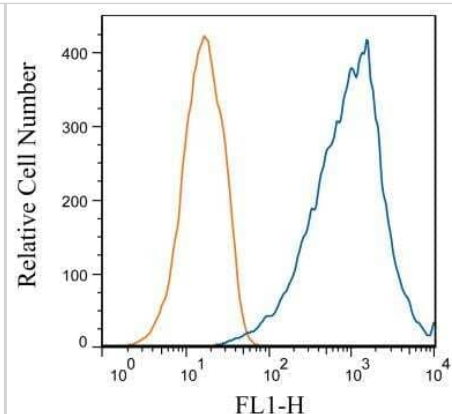
Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Analysis using the Biotin conjugate of NB200-585. Staining of mouse spleen.



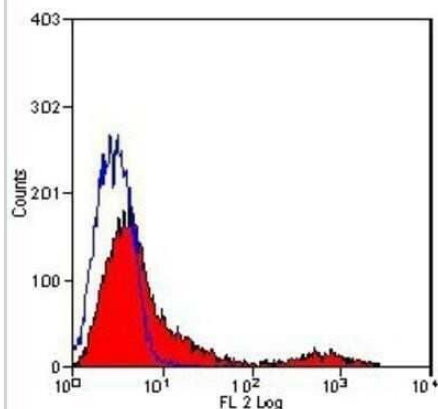
Flow Cytometry: TfR (Transferrin R) Antibody (OX26) [NB200-585] - Staining of rat spleen lymphocytes with mouse anti rat CD71.



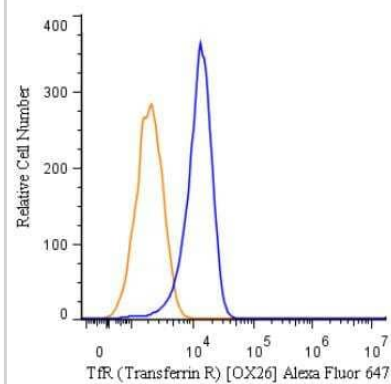
Flow (Intracellular): TfR (Transferrin R) Antibody (OX26) [NB200-585] - PC-12 cells were stained with NB200-585 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes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

Yu J, He X, Wei A et al. HPS1 Regulates the Maturation of Large Dense Core Vesicles and Lysozyme Secretion in Paneth Cells Front Immunol 2020-11-05 [PMID: 33224134]

Chen X, Zhang B, Liu T et al. Liproxstatin-1 Attenuates Morphine Tolerance through Inhibiting Spinal Ferroptosis-like Cell Death ACS Chem Neurosci 2019-11-14 [PMID: 31682397] (Mouse)

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)

Couty JP, Rampon C, Leveque M et al. PECAM-1 engagement counteracts ICAM-1-induced signaling in brain vascular endothelial cells. J Neurochem. [PMID: 17662049]

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)

Paterson DJ, Williams AF. An intermediate cell in thymocyte differentiation that expresses CD8 but not CD4 antigen. J Exp Med. 1987-11-01 [PMID: 3500264] (FLOW, Rat)

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)

Broadwell RD, Baker-Cairns BJ, Friden PM et al. Transcytosis of protein through the mammalian cerebral epithelium and endothelium. III. Receptor-mediated transcytosis through the blood-brain barrier of blood-borne transferrin and antibody against the transferrin receptor. Exp Neurol. 1996-11-01 [PMID: 8912898]

Skarlatos S, Yoshikawa T, Pardridge WM. Transport of [125I]transferrin through the rat blood-brain barrier. Brain Res. 1995-06-19 [PMID: 7552351]

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NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NB200-585AF647	TfR (Transferrin R) Antibody (OX26) [Alexa Fluor® 647]

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