

Product Datasheet

TfR (Transferrin R) Antibody (8D3) - Azide and BSA Free NB100-64979

Unit Size: 0.25 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-64979

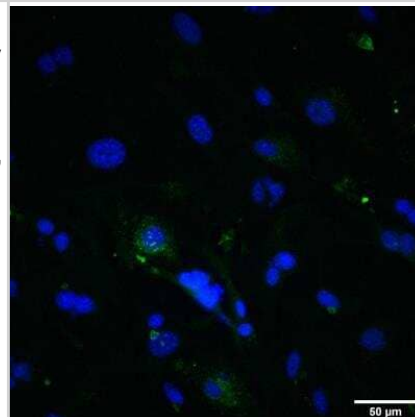
TfR (Transferrin R) Antibody (8D3) - Azide and BSA Free

Product Information	
Unit Size	0.25 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	8D3
Preservative	No Preservative
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Endotoxin Level <0.01 Eu/ug
Host	Rat
Gene ID	7037
Gene Symbol	TFRC
Species	Mouse
Marker	Recycling Endosome Marker
Specificity/Sensitivity	NB100-64979 recognizes native, soluble and denatured forms of murine CD71. The antibody has been used as a BBB transporter vector in mice and is suitable for studying CD71 expression, and iron uptake into different tissues, in the mouse.
Immunogen	Mouse transformed endothelioma cell line t.end1
Product Application Details	
Applications	Flow Cytometry, Functional, Immunohistochemistry, Immunohistochemistry-Frozen, In vivo assay, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Functional, In vivo assay, CyTOF-ready
Application Notes	For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10 ⁶ cells in 100 ul. Immunocytochemistry/Immunofluorescence and In vivo assay were reported in scientific literature.

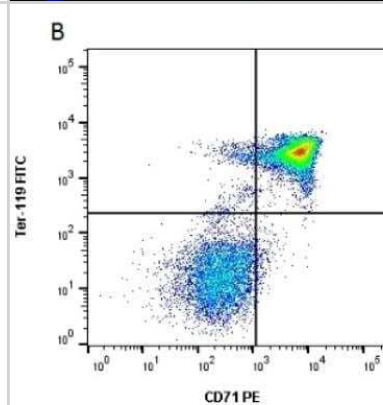


Images

Immunocytochemistry/Immunofluorescence: TfR (Transferrin R) Antibody (8D3) [NB100-64979] - Analysis of TfR (Transferrin R) Antibody on mouse brain endothelial cells. Mouse brain endothelial (bEnd.3) cells expressing Transferrin (FICT, green) and nuclei (DAPI, blue). Experimental details: 0.1 % triton, BSA 30 min, Primary Ab: 1:50, 1h, RT, Secondary Ab: AlexaFluor 488 chicken anti-rat IgG (H+L), 1:800, 30 min. Image from verified customer review.



Flow Cytometry: TfR (Transferrin R) Antibody (8D3) [NB100-64979] - RPE conjugated rat anti mouse Ter-119 and FITC conjugated Rat IgG2a isotype control Figure B. RPE conjugated rat anti mouse Ter-119 and FITC conjugated rat anti mouse CD71. All experiments performed on mouse bone marrow. Data acquired on the ZE5Cell Analyzer



Publications

Michael Vanlandewijck, Liqun He, Maarja Andaloussi Mäe, Johanna Andrae, Koji Ando, Francesca Del Gaudio, Khayrun Nahar, Thibaud Lebouvier, Bàrbara Laviña, Leonor Gouveia, Ying Sun, Elisabeth Raschperger, Markus Räsänen, Yvette Zarb, Naoki Mochizuki, Annika Keller, Urban Lendahl, Christer Betsholtz A molecular atlas of cell types and zonation in the brain vasculature. *Nature* 2018-07-09 [PMID: 29443965]

Yu M, Nie Y, Yang J et al. Integrative multi-omic profiling of adult mouse brain endothelial cells and potential implications in Alzheimer's disease *Cell reports* 2023-11-28 [PMID: 37925638] (IHC-Fr, Mouse)

De Miguel Z, Khoury N, Betley MJ et al. Exercise plasma boosts memory and dampens brain inflammation via clusterin *Nature* 2021-12-16 [PMID: 34880498] (Immunohistochemistry)

Cai Q, Li X, Xiong H et al. Optical blood-brain-tumor barrier modulation expands therapeutic options for glioblastoma treatment *Nature Communications* 2023-08-15 [PMID: 37582846] (Immunohistochemistry)

Kuo A, Checa A, Niaudet C et al. Murine endothelial serine palmitoyltransferase 1 (SPTLC1) is required for vascular development and systemic sphingolipid homeostasis *eLife* 2022-10-05 [PMID: 36197001] (Immunohistochemistry, Mouse)

Liu G, Wang J, Wei Z et al. Elevated PDGF-BB from Bone Impairs Hippocampal Vasculature by Inducing PDGFR? Shedding from Pericytes *Advanced science (Weinheim, Baden-Wurtemberg, Germany)* 2023-04-27 [PMID: 37102631] (IHC-Fr, Mouse)

Palhol JSC, Balia M, Sánchez-Román Terán F et al. Direct association with the vascular basement membrane is a frequent feature of myelinating oligodendrocytes in the neocortex *Fluids and barriers of the CNS* 2023-04-03 [PMID: 37013659] (IHC, Mouse)

Masuda T, Amann L, Monaco G et al. Specification of CNS macrophage subsets occurs postnatally in defined niches *Nature* 2022-04-01 [PMID: 35444273] (IHC-Fr, Mouse)

Li D, Peng J, Li T et al. Itgb3-integrin-deficient mice may not be a sufficient model for patients with Glanzmann thrombasthenia *Molecular medicine reports* 2021-06-01 [PMID: 33880575]

Yang AC, Stevens MY, Chen MB et al. Physiological blood-brain transport is impaired with age by a shift in transcytosis *Nature* 2020-07-01 [PMID: 32612231] (IF/IHC, Mouse)

Meister SW, Hjelm LC, Dannemeyer M et al. An Affibody Molecule Is Actively Transported into the Cerebrospinal Fluid via Binding to the Transferrin Receptor *Int J Mol Sci* 2020-04-23 [PMID: 32340383] (FLOW)

Yanagida K, Engelbrecht E, Niaudet C et al. Sphingosine 1-Phosphate Receptor Signaling Establishes AP-1 Gradients to Allow for Retinal Endothelial Cell Specialization *Dev. Cell* 2020-03-23 [PMID: 32059774]

More publications at <http://www.novusbio.com/NB100-64979>





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Products Related to NB100-64979

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NB100-92243PEP	TfR (Transferrin R) Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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