

# 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.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 18**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB100-64979](http://www.novusbio.com/NB100-64979)

Updated 3/26/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB100-64979](http://www.novusbio.com/reviews/destination/NB100-64979)



**NB100-64979**

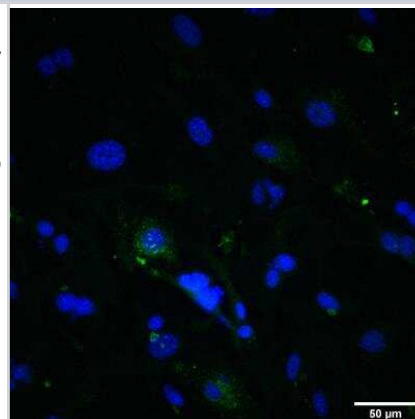
TfR (Transferrin R) Antibody (8D3) - Azide and BSA Free

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, 1% Bovine Serum Albumin
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 <sup>6</sup> cells in 100 ul. Immunocytochemistry/Immunofluorescence and In vivo assay were reported in scientific literature.

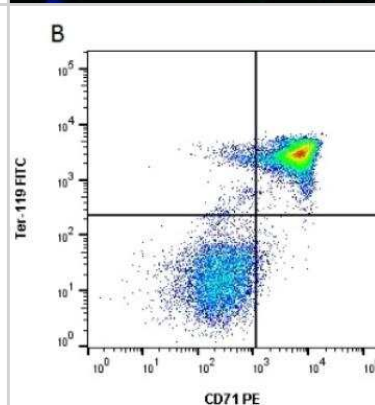


## Images

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

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]

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]

Michael Vanlandewijck, Liquan 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)

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>





### **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

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB100-64979](http://www.novusbio.com/reviews/submit/NB100-64979)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

