

# Product Datasheet

## TOMM20 Antibody (4F3) - Azide and BSA Free H00009804-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00009804-M01**

TOMM20 Antibody (4F3) - Azide and BSA Free

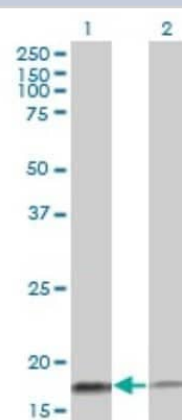
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4F3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Host	Mouse
Gene ID	9804
Gene Symbol	TOMM20
Species	Human, Mouse, Rat
Specificity/Sensitivity	TOMM20 - translocase of outer mitochondrial membrane 20 homolog (yeast)
Immunogen	TOMM20 (AAH66335, 1 a.a. ~ 145 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MVGRNSAIAAGVCGALFIGYCIYFDRKRRSDPNFKNRLRERRKKQKLAKERAG LSKLPDLKDAEAVQKFFLEEIQLGEELLAQGEYEKGV DHLTNAIAVCGQPQQLL QVLQQTLPVPVFQMLLTKLPTISQRIVSAQSLAEDDVE
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

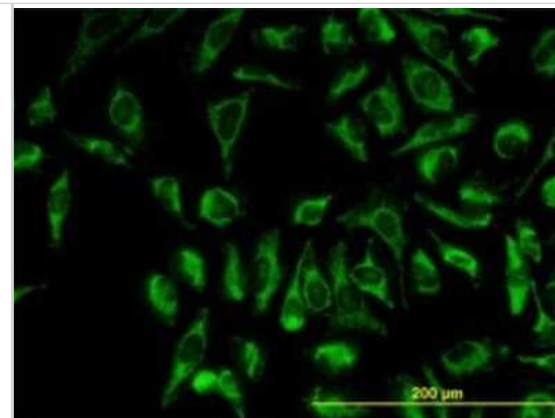
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	Use in FLOW cytometry reported in scientific literature ( PMID 26779811).

**Images**

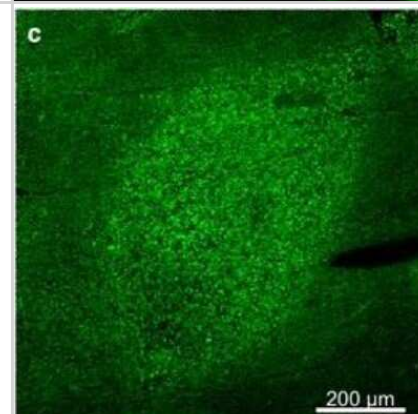
Western Blot: TOMM20 Antibody (4F3) [H00009804-M01] - Analysis of TOMM20 expression in transfected 293T cell line by TOMM20 monoclonal antibody (M01), clone 4F3. Lane 1: TOMM20 transfected lysate (16.3 KDa). Lane 2: Non-transfected lysate.



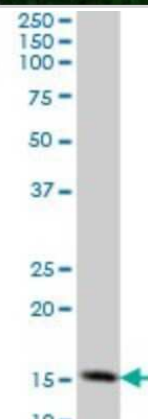
Immunocytochemistry/Immunofluorescence: TOMM20 Antibody (4F3) [H00009804-M01] - Analysis of monoclonal antibody to TOMM20 on HeLa cell. Antibody concentration 10 ug/ml.



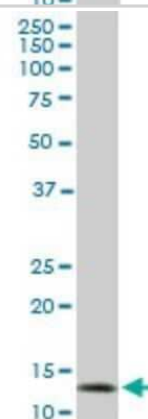
Immunohistochemistry: TOMM20 Antibody (4F3) [H00009804-M01] - Upregulation of GAPDH and TOMM20 in C6 glioma. A small glioma labeled with an antibody against Tom20. The brightness and contrast have been increased. Image collected and cropped by CiteAb from the following publication (<https://www.biomedcentral.com/1756-0500/8/207>), licensed under a CC-BY license.



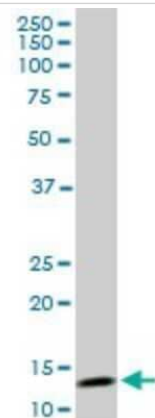
Western Blot: TOMM20 Antibody (4F3) [H00009804-M01] - TOMM20 monoclonal antibody (M01), clone 4F3 Analysis of TOMM20 expression in HeLa.



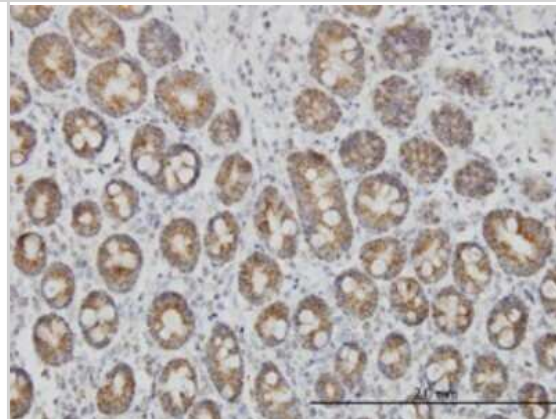
Western Blot: TOMM20 Antibody (4F3) [H00009804-M01] - TOMM20 monoclonal antibody (M01), clone 4F3. Analysis of TOMM20 expression in PC-12.



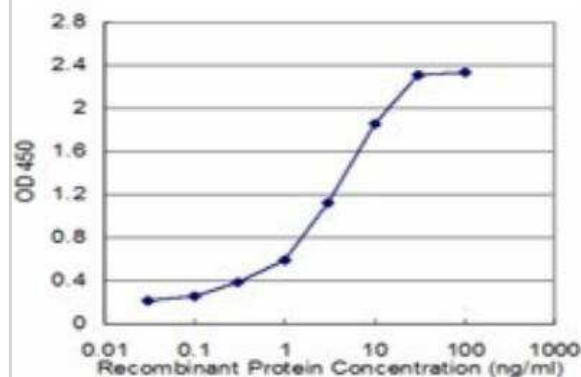
Western Blot: TOMM20 Antibody (4F3) [H00009804-M01] - TOMM20 monoclonal antibody (M01), clone 4F3. Analysis of TOMM20 expression in NIH/3T3.



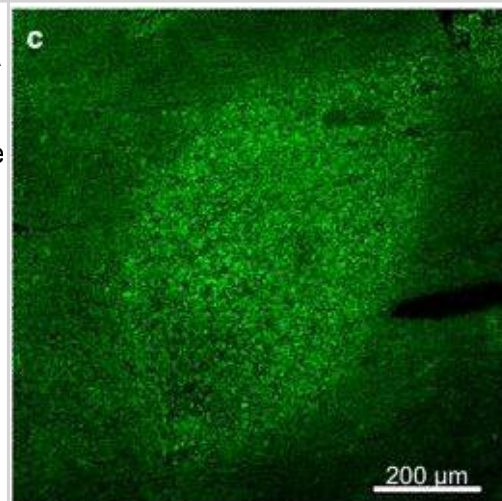
Immunohistochemistry-Paraffin: TOMM20 Antibody (4F3) [H00009804-M01] - Analysis of monoclonal antibody to TOMM20 on formalin-fixed paraffin-embedded human small Intestine. Antibody concentration 3 ug/ml.



ELISA: TOMM20 Antibody (4F3) [H00009804-M01] - Detection limit for recombinant GST tagged TOMM20 is approximately 0.1ng/ml as a capture antibody.



Immunocytochemistry/ Immunofluorescence: TOMM20 Antibody (4F3) [H00009804-M01] - Upregulation of GAPDH & Tom20 in C6 gliomas. a A section of rat brain stained with hematoxylin & eosin to show a glioma produced by implantation of C6 cells in the right caudate nucleus. In this case, cells also grew in the region of the syringe needle track through the cortex. (b–d). A small glioma labeled by bisbenzamide (b) & with antibodies against Tom20 (c) & GAPDH (d). The brightness & contrast have been increased. e Illustration of a strip perpendicular to the rim of a glioma (labeled with bisbenzamide) & along which intensity profiles were measured. f, g Tom20 & GAPDH fluorescence along such a strip (barely visible without enhancement). The graphs show the raw intensity values given by ImageJ. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26032618>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Greiser M, Karbowski M, Kaplan AD et al. Calcium and bicarbonate signaling pathways have pivotal, resonating roles in matching ATP production to demand eLife 2023-06-05 [PMID: 37272417]

Details:

1:100 IHC-P dilution

Zhang QQ, Luo L, Liu MX et al. Enriched Environment-Induced Neuroprotection against Cerebral Ischemia-Reperfusion Injury Might Be Mediated via Enhancing Autophagy Flux and Mitophagy Flux Mediators of Inflammation 2022-01-01 [PMID: 35795405]

So HK, Kim H, Lee J et al. Protein Arginine Methyltransferase 1 Ablation in Motor Neurons Causes Mitochondrial Dysfunction Leading to Age-related Motor Neuron Degeneration with Muscle Loss Research (Washington, D.C.) 2023-06-19 [PMID: 37342629]

Grillon E, Farion R, Reuveni M et al. Spatial profiles of markers of glycolysis, mitochondria, and proton pumps in a rat glioma suggest coordinated programming for proliferation. BMC Res Notes 2015-01-01 [PMID: 26032618]

Eszter C, Nikolett L, Csaba C et al. Microglia modulate blood flow, neurovascular coupling, and hypoperfusion via purinergic actions. J Exp Med. 2022-02-24 [PMID: 35201268]

Beatrice P, Vignesh R, Paradesi G et al. Metabolic impairment of non-small cell lung cancers by mitochondrial HSPD1 targeting. J Exp Clin Cancer Res. 2021-08-07 [PMID: 34364401]

Lewis C, Dixit B, Batiuk E et al. Codon optimization is an essential parameter for the efficient allotopic expression of mtDNA genes. Redox Biol. 2020-01-11 [PMID: 31981894]

Marie-France D, Mukandila M, Shuya K et al. The CD36 Ligand-Promoted Autophagy Protects Retinal Pigment Epithelial Cells from Oxidative Stress. Oxid Med Cell Longev. 2021-03-28 [PMID: 33854697]

Su K, Byeong-Yun A, Thi T et al. PRMT1 suppresses doxorubicin-induced cardiotoxicity by inhibiting endoplasmic reticulum stress. Cell Signal. 2022-07-18 [PMID: 35863589]

Soo S, Yunkwon N, Yong P et al. Therapeutic effects of non-saponin fraction with rich polysaccharide from Korean red ginseng on aging and Alzheimer's disease. Free Radic Biol Med. 2021-01-07 [PMID: 33422674]

Tsitoura E, Vasarmidi E, Bibaki E et al. Accumulation of damaged mitochondria in alveolar macrophages with reduced OXPHOS related gene expression in IPF. Respir Res. 2019-11-27 [PMID: 31775876]

Pandey J, Larson-Casey JL, Patil MH et al. NOX4-TIM23 interaction regulates NOX4 mitochondrial import and metabolic reprogramming The Journal of biological chemistry 2023-04-10 [PMID: 37044213] (WB, Mouse, Human)

More publications at <http://www.novusbio.com/H00009804-M01>





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### **Products Related to H00009804-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-22883	Recombinant Human TOMM20 His Protein

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### **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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