

TGN46 Monoclonal Antibody (2F7.1)

Product Details	
Size	100 µg
Species Reactivity	Human, Non-human primate, Rat
Published Species	Rat, Non-human primate, Hamster, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	2F7.1
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues L(18) P S A S K P N N T S S E N N P P(34) C of rat TGN38.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325484

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	6 Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunocytochemistry (ICC/IF)	1:1,000	30 Publications
Flow Cytometry (Flow)	1/20 - 1/50	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

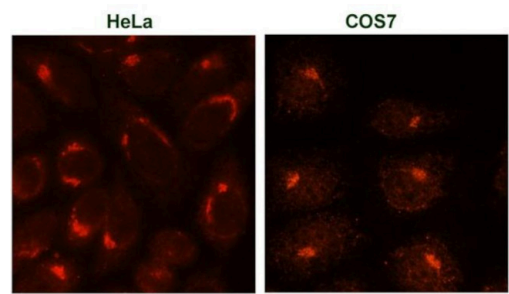
MA3-063 detects trans-Golgi network (TGN) 38 from human and monkey samples and both recombinant and endogenous rat samples.

MA3-063 has been successfully used in Western blot, immunofluorescence, immunocytochemistry and FACS procedures. By Western blot, this antibody detects an ~38 kDa protein representing deglycosylated recombinant rat TGN38. Under normal Western blot conditions, this antibody detects an 85-95 kDa band depending on cell type. Immunofluorescence staining of TGN38 in NRK cells with MA3-063 results in staining predominantly in the TGN.

In immunofluorescence, it has been shown that methanol works best as a fixative.

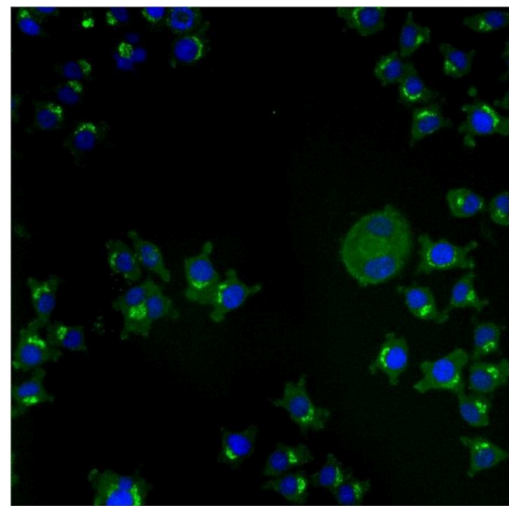
The MA3-063 immunogen is a synthetic peptide corresponding to residues L(18) P S A S K P N N T S S E N N P P(34) C of rat TGN38.

Product Images For TGN46 Monoclonal Antibody (2F7.1)



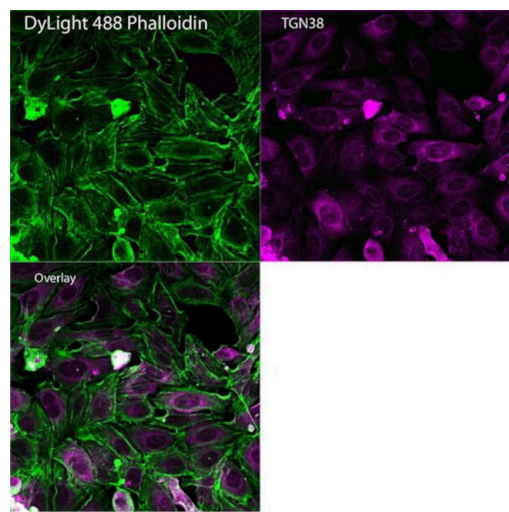
TGN46 Antibody (MA3-063) in ICC/IF

HeLa and COS7 cells were rinsed with PBS and fixed with -20°C methanol for 5 minutes. Cells were incubated with anti-TGN38 antibody (Product # MA3-063) diluted 1:100 in PBS containing 0.2%BSA for 1 hour. The cells were then rinsed in PBS and incubated with goat anti-mouse IgG conjugated to rhodamine for 30 minutes in PBS containing 0.2% BSA. Following washing, cells were imaged using a Zeiss Axioplan microscope. Data courtesy of the Innovators Program.



TGN46 Antibody (MA3-063) in ICC/IF

Immunofluorescent analysis of Trans Golgi Network 38 using anti-Trans Golgi Network 38 monoclonal antibody (Product # MA3-063) shows staining in NS-1 Cells.



TGN46 Antibody (MA3-063) in ICC/IF

Immunofluorescent analysis of Phalloidin (green) and TGN38 (purple) in U2OS cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in PBS for 10 minutes at room temperature and blocked with 2% BSA (Product # 37525) in PBS + 0.1% Triton X-100 for 30 minutes at room temperature. Cells were probed with a TGN38 monoclonal antibody (Product # MA3-063) at a dilution of 1:75 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 680 goat anti-mouse IgG secondary antibody (Product # 35518) at a dilution of 1:250 for 30 minutes at room temperature. Actin was stained with DyLight 488 Phalloidin (Product # 21833) at a dilution of 1:300 (1 unit/mL final concentration) for 30 minutes. Images were taken on a Thermo Scientific ArrayScan VTI at 20X magnification.

[View more figures on thermofisher.cn](https://www.thermofisher.cn)

Western Blot (6)

Viruses	
Influenza A Virus Infection Activates NLRP3 Inflammasome through Trans-Golgi Network Dispersion.	Year 2022
"MA3-063 was used in Western Blot to reveal a novel mechanism behind the activation and regulation of the NLRP3 inflammasome in IAV infection."	Species Human
Authors: Pandey KP,Zhou Y	
American journal of physiology. Cell physiology	
Mechanism of action of the anti-inflammatory connexin43 mimetic peptide JM2.	Year 2017
"MA3-063 was used in Western Blotting to determine the mechanism of action for juxtamembrane 2."	Species Human
Authors: Rhett JM,Calder BW,Fann SA,Bainbridge H,Gourdie RG,Yost MJ	

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (8)

Cell death discovery	
MiR-92a/KLF4/p110 regulates titanium particles-induced macrophages inflammation and osteolysis.	Year 2022
"MA3-063 was used in Immunohistochemistry-immunofluorescence to suggest the key role of miR-92a/KLF4/p110 signal in TiPs-induced macrophages inflammation and osteolysis."	Species Human
Authors: Wen Z,Lin S,Li C,Ouyang Z,Chen Z,Li S,Huang Y,Luo W,Zheng Z,Guo P,Kuang M,Ding Y	
Journal of neurochemistry	
Vesicular acetylcholine transporter (VAChT) over-expression induces major modifications of striatal cholinergic interneuron morphology and function.	Year 2017
"MA3-063 was used in Immunohistochemistry to demonstrate that ChAT-ChR2 mice present major alterations of CIN neuronal morphology and increased behavioral sensitization to cocaine, supporting the notion that the increased levels of VAChT observed in these mice make them fundamentally different from wild-type mice."	Species Mouse
Authors: Janickova H,Prado VF,Prado MAM,El Mestikawy S,Bernard V	

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

- ICC/IF (30)
- Misc (1)

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