Product Datasheet

TGN38 Antibody (2F7.1)
NB300-575

Unit Size: 100 uL

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

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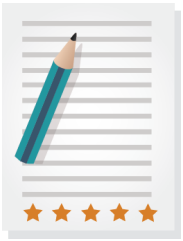


NB300-575

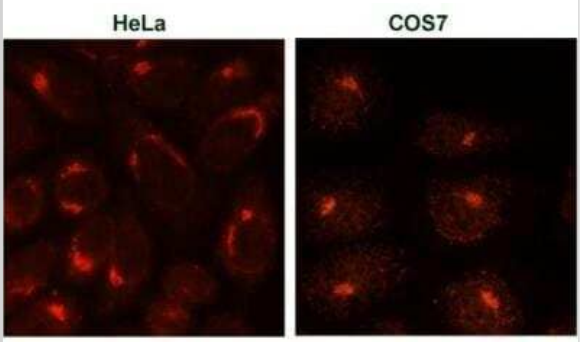
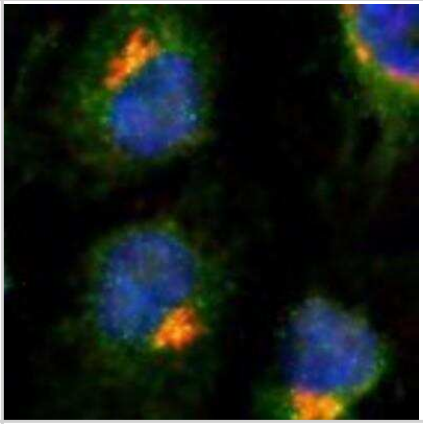
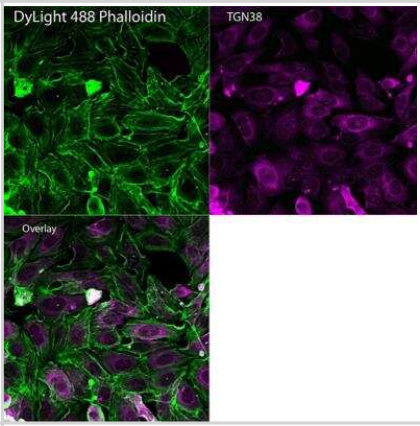
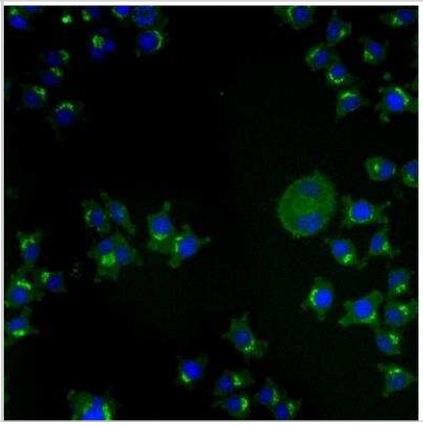
TGN38 Antibody (2F7.1)

Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F7.1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS, 1 mg/mL BSA

Product Description	
Host	Mouse
Gene ID	10618
Gene Symbol	TGOLN2
Species	Human, Mouse, Rat, Chinese Hamster, Monkey, Rabbit
Reactivity Notes	Chinese Hamster reactivity reported in scientific literature (PMID: 11408588). Rabbit reactivity reported in scientific literature (PMID: 10514494). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information. Use in Human reported in scientific literature (PMID:24576880).
Marker	TGN Marker
Specificity/Sensitivity	Detects Trans Golgi Network (TGN) 38 from human and monkey samples and both recombinant and endogenous rat samples.
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.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 1:20 - 1:50, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:1000
Application Notes	IP usage was reported in scientific literature (PMID: 10514494). WB: Detects an approx. 38 kDa protein representing deglycosylated recombinant rat TGN38. Under normal WB conditions, detects an 85-95 kDa band depending on cell type. IF: Staining of TGN38 in NRK cells results in staining predominantly in the TGN. IF: it has been shown that methanol works best as a fixative.

Images

Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - HeLa and COS7 cells were rinsed with PBS and fixed with -20C methanol for 5 minutes. Cells were incubated with anti-TGN38 antibody 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. ICC/IF image submitted by a verified customer review.	
Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - Staining of TGN-38 in NRK cells.	
Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - 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 in PBS + 0.1% Triton X-100 for 30 minutes at room temperature. Cells were probed with a TGN38 monoclonal antibody 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 at a dilution of 1:250 for 30 minutes at room temperature. Actin was stained with DyLight 488 Phalloidin 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.	
Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - Staining in NS-1 Cells.	

Publications

Boyer CK, Bauchle CJ, Zhang J et al. Synchronized proinsulin trafficking reveals delayed Golgi export accompanies ?-cell secretory dysfunction in rodent models of hyperglycemia Scientific reports 2023-03-30 [PMID: 36997560] (ICC/IF, Rat)

Parchure A, Tian M, Stalder D et al. Liquid-liquid phase separation facilitates the biogenesis of secretory storage granules The Journal of cell biology 2022-12-05 [PMID: 36173346] (Immunocytochemistry/ Immunofluorescence, Rat)

Andreska T, Lüningschrör P, Wolf D et al. DRD1 signaling modulates TrkB turnover and BDNF sensitivity in direct pathway striatal medium spiny neurons Cell reports 2023-05-29 [PMID: 37252844] (IHC, Rat)

J Tisdale E, R Artalejo C Rab2 stimulates LC3 lipidation on secretory membranes by noncanonical autophagy Experimental cell research 2023-05-16 [PMID: 37201743]

Maruo K, Nishiyama M, Honda Y et al. Increased GLUT1 expression and localization to Golgi apparatus of acinar cells in the parotid gland of Goto-Kakizaki diabetic rats Archives of oral biology 2022-12-05 [PMID: 36521282] (IHC-P, Rat)

Rohli KE, Boyer CK, Bearrows SC et al. ER Redox Homeostasis Regulates Proinsulin Trafficking and Insulin Granule Formation in the Pancreatic Islet beta-Cell Function (Oxford, England) 2022-09-28 [PMID: 36325514] (IF/IHC, Mouse)

Kamat, V;Radtke, JR;Hu, Q;Wang, W;Sweet, IR;Hampe, CS; Autoantibodies directed against glutamate decarboxylase interfere with glucose-stimulated insulin secretion in dispersed rat islets International journal of experimental pathology [PMID: 35246889]

Andreska T Effects of dopamine on BDNF/TrkB mediated signaling and plasticity on cortico-striatal synapses Thesis 2021-01-01 (IF/IHC, Rat)

Li M, Shao F, Qian Q Et al. A putative long noncoding RNA-encoded micropeptide maintains cellular homeostasis in pancreatic beta cells Molecular Therapy - Nucleic Acids 2021-12-01 [PMID: 34513312] (ICC/IF, Rat)

Alsalem J A, Patel D et al. Characterization of vitamin D production by human ocular barrier cells. Invest Ophthalmol Vis Sci 2014-07-04 [PMID: 24576880] (ICC/IF, Human)

Casas M, FadO R, DomInguez JL et al. Sensing of nutrients by CPT1C controls SAC1 activity to regulate AMPA receptor trafficking J. Cell Biol. 2020-10-05 [PMID: 32931550] (ICC/IF, Mouse)

Taverner A, MacKay J, Laurent F et al. Cholix protein domain I functions as a carrier element for efficient apical to basal epithelial transcytosis Tissue Barriers 2020-01-13 [PMID: 31928299] (IF/IHC, Rat)

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2914-HT-100MG	Holo-Transferrin [Unconjugated]

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