

# Product Datasheet

## **TGN38 Antibody** **NB300-575SS**

Unit Size: 0.02 ml

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

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Updated 6/15/2014 v.20.1

**NB300-575SS**

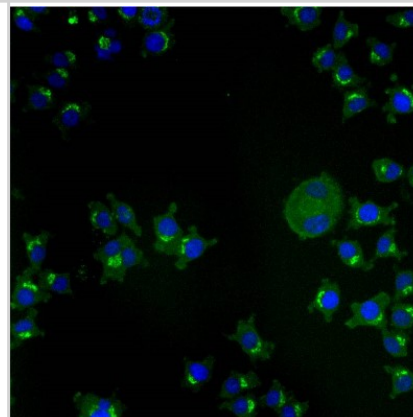
TGN38 Antibody (2F7.1)

Product Information	
Unit Size	0.02 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F7.1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Ascites
Buffer	PBS diluted ascites
Product Description	
Host	Mouse
Gene ID	10618
Gene Symbol	TGOLN2
Species	Human, Rat, Chinese Hamster, Primate, Rabbit
Species Reactivity	Chinese Hamster reactivity reported in scientific literature (PMID: 11408588). Not yet tested in other species.
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: LPSASKPNNTSSENNPP-C, corresponding to amino acids 1-17 of Rat TGN38.
Product Application Details	
Applications	Western Blot, Blocking/Neutralizing, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Blocking/Neutralizing, Flow Cytometry 1/20 - 1/50, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:1000, Immunoprecipitation 1:10-1:500, Western Blot 1:500
Application Notes	In 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 results in staining predominantly in the TGN. In Immunofluorescence, it has been shown that methanol works best as a fixative. Optimal dilutions should be determined by the end user. Product is useful for Immunoprecipitation as reported in the literature (PMID: 10514494)

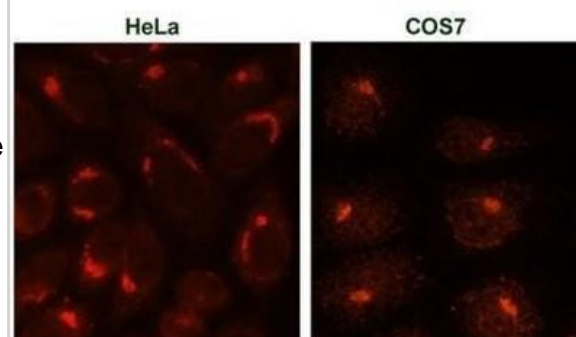


## Images

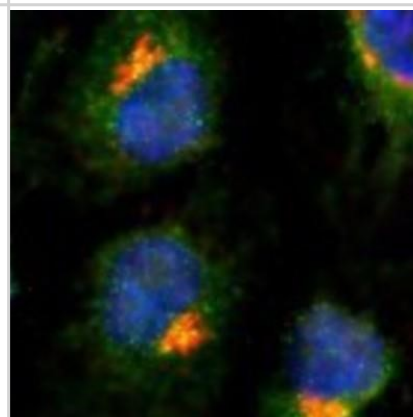
Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - Shows staining in NS-1 Cells.



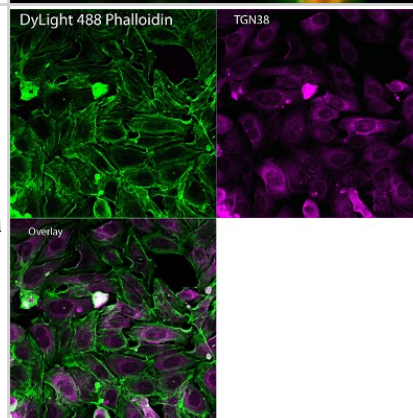
Immunohistochemistry: TGN38 Antibody (2F7.1) [NB300-575] - HeLa and COS7 cells were rinsed with PBS and fixed with -20 degrees C methanol for 5 minutes. Cells were incubated with NB300-575 diluted 1:100 in PBS containing 0.2%BSA for 1 hour. The cells were then rinsed in PBS and incubated with goat anti-mouse IgG conjugated to rhodamine for 30 minutes in PBS containing 0.2% BSA.



Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - Shows immunofluorescence staining of TGN-38 in NRK cells.



Immunocytochemistry/Immunofluorescence: TGN38 Antibody (2F7.1) [NB300-575] - 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.



**Publications**

Szmydynger-Chodobska J, Fox LM, Lynch KM et al. Vasopressin amplifies the production of proinflammatory mediators in traumatic brain injury. *J Neurotrauma* 2010 Aug [PMID: 20504162] (IHC, ICC/IF, Rat)

Mikhaylova M, Reddy PP, Munsch T et al. Calneurons provide a calcium threshold for trans-Golgi network to plasma membrane trafficking. *PNAS*:0903001106. 2009 [PMID: 19458041]

Szmydynger-Chodobska J, Strazielle N, Gandy JR, Keefe TH, Zink BJ, Ghersi-Egea JF, Chodobski A. Posttraumatic invasion of monocytes across the blood-cerebrospinal fluid barrier. *J Cereb Blood Flow Metab*;32(1):93-104. 2012 Jan. [PMID: 21829211] (WB, Rat)





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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.

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

