

# Product Datasheet

## TGN38 Antibody - Azide and BSA Free NBP1-03495SS

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-03495SS**

TGN38 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute 0.5 mg size in 0.5 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the 0.1 mg size is provided in reconstituted format.
Isotype	IgG
Purity	Ammonium sulfate precipitation
Buffer	Contains 0.02% benzalkonium chloride.

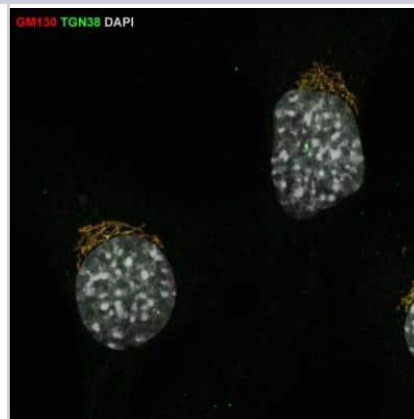
Product Description	
Description	PLEASE NOTE: 0.1mg sample size is provided in reconstituted format and the 0.5mg size is provided lyophilized. (Please see reconstitution instructions).
Host	Rabbit
Gene ID	10618
Gene Symbol	TGOLN2
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	Marmoset (100%).
Marker	TGN Marker
Specificity/Sensitivity	TGN38 (or TGN46, TGN48, TGN51 in human).
Immunogen	A synthetic peptide from mouse TGN38 conjugated to blue carrier protein was used as the antigen.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 10-50 ug/ml, Immunohistochemistry 10-50 ug/ml, Immunocytochemistry/ Immunofluorescence 1:50-1:250
Application Notes	The 0.1 mg size ships reconstituted and the 0.5 mg size ships lyophilized. ICC/IF reactivity reported in (PMID: 27505890) and a verified customer review.

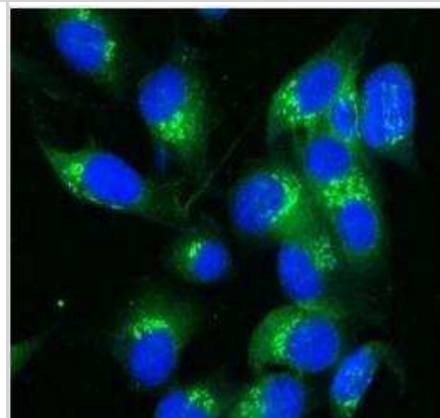


## Images

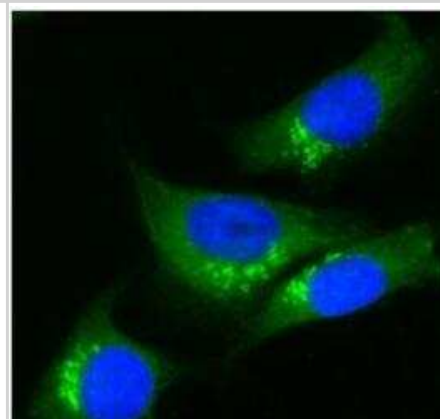
Immunocytochemistry/Immunofluorescence: TGN38 Antibody [NBP1-03495] - Mouse embryonic fibroblasts, fixed with 4% PFA washed with PBS, permeabilized with 0.2% Triton X-100. Primary antibody at 1:100 in 3% BSA in PBS. Secondary antibodies incubation for 2 hours. Image from a verified customer review.



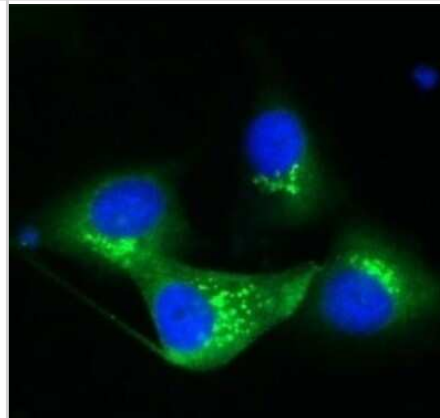
Immunocytochemistry/Immunofluorescence: TGN38 Antibody [NBP1-03495] - Human Melanoma cell line C 32.



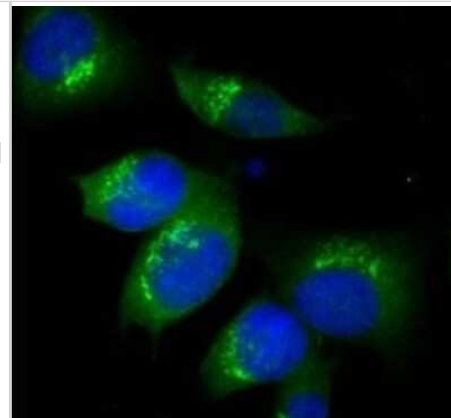
Immunocytochemistry/Immunofluorescence: TGN38 Antibody [NBP1-03495] - Human Melanoma cell line C 32



Immunocytochemistry/Immunofluorescence: TGN38 Antibody [NBP1-03495] - Human Melanoma cell line C 32 was cultured overnight on round cover slides placed in a 24 well tissue culture plate. Culture media removed and washed twice with PBS before fixing with 2% formalin for 10 minutes. Cells were then washed three times with PBS and incubated with Tris 0.01M containing Triton X 0.005% for 15 minutes. Cells were washed and incubated with 100 ul of Rabbit antibody to TGN diluted 1:100 in the blocking buffer for 30 minutes. Wells were then washed 7 times with PBS and incubated with 100 ul of anti Rb-FITC conjugate diluted 1:100 in the blocking buffer for further 30 minutes. Cells were washed as before and nuclear counter stained with Hoechst and mounted on to slides.



Immunocytochemistry/Immunofluorescence: TGN38 Antibody [NBP1-03495] - Human Melanoma cell line C 32 was cultured overnight on round cover slides placed in a 24 well tissue culture plate. Culture media removed and washed twice with PBS before fixing with 2% formalin for 10 minutes. Cells were then washed three times with PBS and incubated with Tris 0.01M containing Triton X 0.005% for 15 minutes. Cells were washed and incubated with 100 ul of Rabbit antibody to TGN diluted 1:100 in the blocking buffer for 30 minutes. Wells were then washed 7 times with PBS and incubated with 100 ul of anti Rb-FITC conjugate diluted 1:100 in the blocking buffer for further 30 minutes. Cells were washed as before and nuclear counter stained with Hoechst and mounted on to slides.



## Publications

Saller BS, Wöhrle S, Fischer L et Al. Acute suppression of mitochondrial ATP production prevents apoptosis and provides an essential signal for NLRP3 inflammasome activation Immunity 2024-11-15 [PMID: 39571574]

Tao Yu, Dan Hou, Jiaqi Zhao, Xuan Lu, Wendy K. Greentree, Qian Zhao, Min Yang, Don-Gerard Conde, Maurine E. Linder, Hening Lin NLRP3 Cys126 palmitoylation by ZDHHC7 promotes inflammasome activation Cell reports 2024-05-22 [PMID: 38583156]

Daisuke Sugahara, Yuka Kobayashi, Yoshihiro Akimoto, Hayato Kawakami Mouse intestinal niche cells express a distinct  $\alpha$ 1,2-fucosylated glycan recognized by a lectin from Burkholderia cenocepacia. Glycobiology 2018-06-12 [PMID: 28177462]

Liu Y, Zhai H, Alemayehu H et al. Cryo-electron tomography of NLRP3-activated ASC complexes reveals organelle co-localization Nature communications 2023-11-09 [PMID: 37945612] (ICC/IF, Mouse)

Details:

1:250 ICC/IF dilution

Bilekova S, Garcia-Colomer B, Cebrian-Serrano A et al. Inceptor facilitates acrosomal vesicle formation in spermatids and is required for male fertility Frontiers in Cell and Developmental Biology 2023-08-24 [PMID: 37691832] (Immunohistochemistry-Frozen, Immunocytochemistry/ Immunofluorescence)

Magupalli VG, Negro R, Tian Y et al. HDAC6 mediates an aggresome-like mechanism for NLRP3 and pyrin inflammasome activation Science 2020-09-18 [PMID: 32943500]

Petkovic M, Oses-Prieto JA, Burlingame A, Jan L TMEM16K is an interorganelle regulator of endosomal sorting Nat Commun 2020-07-05 [PMID: 32620747]

Andreeva L, David L, Rawson S et al. NLRP3 cages revealed by full-length mouse NLRP3 structure control pathway activation Cell 2021-12-22 [PMID: 34861190] (ICC/IF, Mouse)

Watson AR, Dai H, Zheng Y et al. mTORC2 Deficiency Alters the Metabolic Profile of Conventional Dendritic Cells Front Immunol 2019-07-02 [PMID: 31338091] (ICC/IF, Mouse)

Shi CS, Nabar NR, Huang NN, Kehrl JH SARS-Coronavirus Open Reading Frame-8b triggers intracellular stress pathways and activates NLRP3 inflammasomes Cell Death Discov 2019-06-05 [PMID: 31231549] (ICC/IF)

Fink, A;Mikulicic, S;Blaum, F;Reddehase, MJ;Florin, L;Lemmermann, NAW; Function of the cargo sorting dileucine motif in a cytomegalovirus immune evasion protein Med. Microbiol. Immunol. 2019-04-19 [PMID: 31004199] (ICC/IF, Mouse)

Ren C, Yuan Q, Braun M et al. Leukocyte Cytoskeleton Polarization Is Initiated by Plasma Membrane Curvature from Cell Attachment Dev. Cell 2019-03-23 [PMID: 30930167] (ICC/IF, Mouse)

More publications at <http://www.novusbio.com/NBP1-03495>



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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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