



Datasheet for ABIN968238
anti-TGOLN2 antibody (AA 31-244)



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Overview

Quantity:	50 µg
Target:	TGOLN2
Binding Specificity:	AA 31-244
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TGOLN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat TGN38 aa. 31-244
Clone:	2-TGN38
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	TGOLN2
Alternative Name:	TGN38 (TGOLN2 Products)
Background:	<p>Newly synthesized proteins exit the ER and move to the cis-Golgi network (CGN) where they traverse the cis-medial and trans-cisternae before reaching the trans-Golgi network (TGN). N-linked oligosaccharide processing occurs in the TGN, and proteins are sorted to the plasma membrane, lysosomes, endosomes, and secretory granules. TGN38 is a type I integral membrane protein primarily localized to the TGN. It is involved in the sorting of nascent proteins into individual carrier vesicles for transport to appropriate destinations. It is thought to heterodimerize with TGN41 and participate in exocytic budding from the TGN. TGN38 has a molecular weight of 85 to 95 kDa. The core polypeptide represents approximately 38 kDa, while the remainder is accounted for by N- and O-linked oligosaccharide chains. A 286 aa N-terminal luminal domain, a 21 aa membrane spanning domain, and a 33 aa C-terminal cytoplasmic tail comprise the structure of TGN38. The cytoplasmic tail contains a tyrosine-based motif, YQRL, that is thought to be involved in TGN localization. Therefore, TGN38 mediates the localization of various proteins to the TGN and serves as a TGN retrieval signal. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: Trans Golgi Network-38</p>
Molecular Weight:	85-95 kDa

Application Details

Comment:	Related Products: ABIN968545 , ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

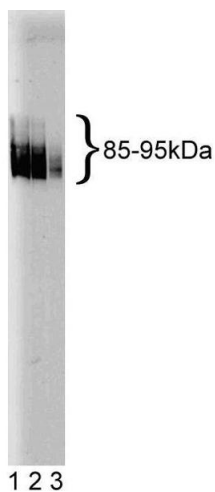
Handling

Storage Comment: Store undiluted at -20° C.

Publications

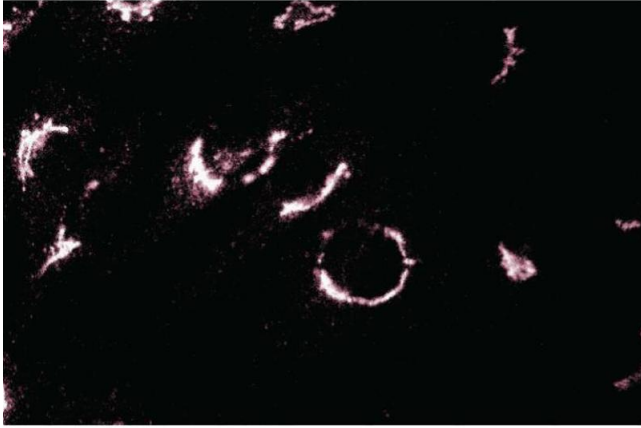
- Product cited in:
- Mary, Charrasse, Meriane, Comunale, Travo, Blangy, Gauthier-Rouvière: "Biogenesis of N-cadherin-dependent cell-cell contacts in living fibroblasts is a microtubule-dependent kinesin-driven mechanism." in: **Molecular biology of the cell**, Vol. 13, Issue 1, pp. 285-301, (2002) ([PubMed](#)).
- Ozawa, Kondo, Hori, Kitao, Stern, Eisenmenger, Ogawa, Ohshima: "Expression of the oxygen-regulated protein ORP150 accelerates wound healing by modulating intracellular VEGF transport." in: **The Journal of clinical investigation**, Vol. 108, Issue 1, pp. 41-50, (2001) ([PubMed](#)).
- Xu, Shen, Joseph, Bryant, Luo, Frankel, Rotunda, Foster: "Mitogenic phospholipase D activity is restricted to caveolin-enriched membrane microdomains." in: **Biochemical and biophysical research communications**, Vol. 273, Issue 1, pp. 77-83, (2000) ([PubMed](#)).
- Humphrey, Peters, Yuan, Bonifacino: "Localization of TGN38 to the trans-Golgi network: involvement of a cytoplasmic tyrosine-containing sequence." in: **The Journal of cell biology**, Vol. 120, Issue 5, pp. 1123-35, (1993) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of TGN38 on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1: 500, lane 3: 1: 1000 dilution of the mouse anti- rat TGN38 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of L6 cells (Rat skeletal muscle myoblasts, ATCC CRL-1458).