



Mouse anti-Rat TGN38 monoclonal antibody, clone 3/UHO49 (CABT-B9337)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Rat TGN38 aa. 31-244
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat
Clone	3/UHO49
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 µg/ml
Size	50 µg, 150 µg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction 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.

Keywords

TGOLN2; trans-golgi network protein 2; TGN38; TGN46; TGN48; TGN51; TTGN2; trans-Golgi network integral membrane protein 2; TGN38 homolog; trans-Golgi network protein TGN51; trans-Golgi network protein (46, 48, 51kD isoforms);

GENE INFORMATION

Entrez Gene ID

[10618](#)

UniProt ID

[O43493](#)
