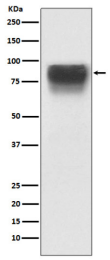
TGN46 Antibody / TGOLN2 [clone AOHO-20] (RQ4738)

Catalog No.	Formulation	Size
RQ4738	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

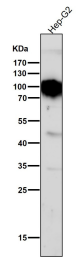
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOHO-20
Purity	Affinity purified
UniProt	O43493
Applications	Western blot: 1:500-1:2000
Limitations	This TGN46 antibody is available for research use only.



TGN46 Antibody Human Cell WB. Western blot analysis of human HeLa cell lysate using TGN46 Antibody / TGOLN2 (clone AOHO-20). An HRP-conjugated secondary antibody with ECL substrate was used for detection. This recombinant rabbit monoclonal TGN46 Antibody detects a band at approximately 80-90 kDa, consistent with the migration pattern of mature glycosylated TGOLN2/TGN46 protein. Detection supports studies of trans-Golgi network organization, protein sorting, vesicle trafficking, and secretory pathway regulation.



TGN46 Antibody Human Liver Cancer Cell WB. Western blot analysis of human HepG2 cell lysate using TGN46 Antibody / TGOLN2 (clone AOHO-20) at 1:1000 dilution. An HRP-conjugated secondary antibody with ECL substrate was used for detection. This recombinant rabbit monoclonal TGN46 Antibody detects a broad band at approximately 80-110 kDa, consistent with the expected migration pattern of highly glycosylated TGOLN2/TGN46 protein. Detection supports studies of trans-Golgi network structure, intracellular protein sorting, vesicle trafficking, and regulation of secretory pathway function.

Description

TGN46 Antibody / TGOLN2 recognizes trans-Golgi network integral membrane protein 2 (TGOLN2), a membrane-associated glycoprotein commonly referred to as TGN46. This protein is primarily localized to the trans-Golgi network, where it participates in intracellular protein trafficking, cargo sorting, vesicle transport, and maintenance of Golgi organization. The trans-Golgi network acts as a major sorting compartment responsible for directing newly processed proteins and lipids to the plasma membrane, secretory vesicles, and endosomal pathways. TGN46 Antibody / TGOLN2 is commonly used to study Golgi biology, secretory pathway regulation, and intracellular membrane trafficking.

TGN46 cycles between the trans-Golgi network, cell surface, and endosomal compartments, reflecting its role in dynamic membrane transport processes. The protein contains trafficking signals within its cytoplasmic domain that contribute to its localization and recycling. Because of its strong enrichment within the trans-Golgi network, TGN46 is frequently used as a marker for analyzing Golgi structure, organelle distribution, and changes in cellular transport pathways. This recombinant rabbit monoclonal TGN46 Antibody / TGOLN2 (clone AOHO-20) provides researchers with a consistent tool for detecting TGOLN2 expression and localization.

Studies involving TGN46 help researchers examine the organization and function of the Golgi apparatus, including protein modification, packaging, and secretion. Alterations in Golgi structure and vesicle trafficking can influence cellular signaling, immune responses, stress pathways, and disease-related processes. The mature TGOLN2/TGN46 protein is extensively glycosylated, which commonly results in slower migration during Western blot analysis compared with the predicted unmodified molecular weight.

For additional information about TGOLN2 biology, validated applications, and related products, learn more about our TGOLN2 Antibody, a Trans-Golgi Network Marker Antibody for studying Golgi organization, protein trafficking, vesicle transport, and secretory pathway regulation.

Application Notes

Optimal dilution of the TGN46 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human TGN46 / TGOLN2 was used as the immunogen for the TGN46 antibody.

Storage

Store the TGN46 antibody at -20oC.

Alternate Names

TGOLN2 Antibody, Trans-Golgi Network Protein 2 Antibody, Trans-Golgi Network Integral Membrane Protein 2 Antibody, TGN38 Homolog Antibody, Golgi Marker Antibody, Trans-Golgi Marker Antibody

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