For Research Use Only

TGN46 Monoclonal antibody

Catalog Number:66477-1-Ig 10 Publications

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Basic Information

Catalog Number:
66477-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG4470

GenBank Accession Number:
BC028219

GeneID (NCBI):
10618

UNIPROT ID:
O43493

Full Name:
trans-golgi network protein 2

Calculated MW:
447 aa, 47 kDa

Observed MW:
90 kDa

Purification Method:
Protein G purification

CloneNo.:
1F6D5

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:150-1:600

Applications

Tested Applications:
IHC, WB, ELISA

Species Specificity:
Human, Rat, Pig, Mouse

Cited Species:
human, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, HeLa cells, LNCaP cells, HepG2 cells, L02 cells, SMMC-7721 cells, human colostrum tissue, pig liver tissue

IHC : human breast cancer tissue, human liver cancer tissue

Background Information

TGN46 (TGOLN2), the human homologue of rat Tgn38, is a transmembrane glycoprotein predominantly localized to the TGN (trans-Golgi network). TGN is a major secretory pathway sorting station for proteins and lipids. TGN46 may be involved in regulating membrane traffic to and from TGN. Alternatively spliced transcript variants encode different TGN46 isoforms. TGN46 has an apparent molecular mass of 100-150 kDa, suggesting extensive O- and N-glycosylations.

Notable Publications

Author	Pubmed ID	Journal	Application
Erika Jang	38989581	Arterioscler Thromb Vasc Biol	
Zhuoxuan Jia	38904008	Int J Biol Sci	
Haoyu Zhao	38230579	J Cell Physiol	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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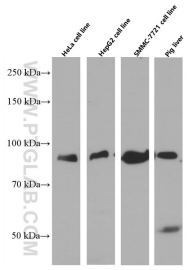
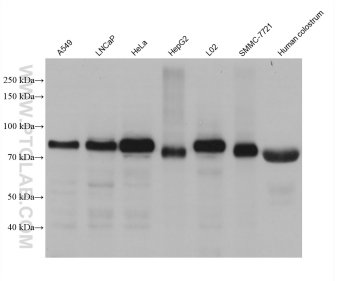
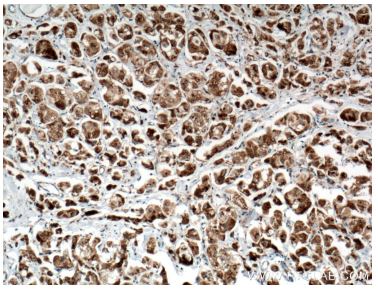
Selected Validation Data



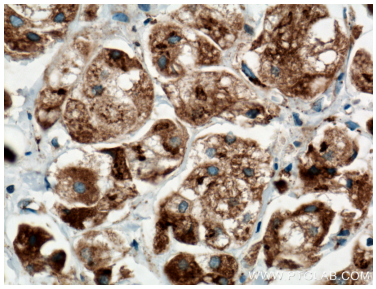
HeLa cells were subjected to SDS PAGE followed by western blot with 66477-1-Ig (TGN46 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66477-1-Ig (TGN46 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66477-1-Ig (TGN46 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66477-1-Ig (TGN46 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).