

For Research Use Only

TGN46 Recombinant antibody

Catalog Number: 83099-2-RR



Basic Information

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| Catalog Number: 83099-2-RR | GenBank Accession Number: BC028219 | Purification Method: Protein A purification |
| Size: 1000 ug/ml | GeneID (NCBI): 10618 | CloneNo.: 230376D6 |
| Source: Rabbit | UNIPROT ID: O43493 | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF/ICC 1:125-1:500 |
| Isotype: IgG | Full Name: trans-golgi network protein 2 | |
| Immunogen Catalog Number: AG4470 | Calculated MW: 447 aa, 47 kDa Observed MW: 90-100 kDa | |

Applications

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| Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA | Positive Controls: WB: A549 cells, HeLa cells, PC-3 cells, PC-12 cells, human kidney tissue IP: HeLa cells, IHC: human stomach cancer tissue, IF/ICC: HeLa cells, |
| Species Specificity: human | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

TGN46 (TGNL2), 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.

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:

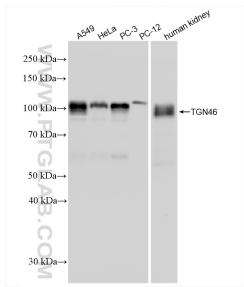
T: 4006900926

E: Proteintech-CN@ptglab.com

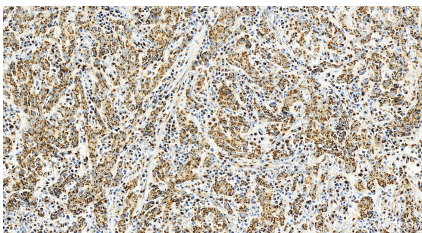
W: ptgcn.com

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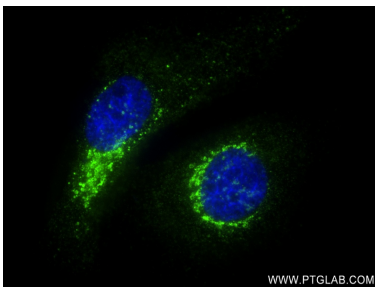
Selected Validation Data



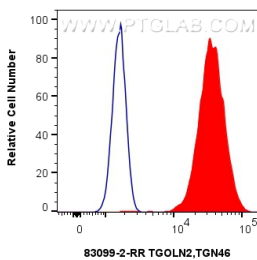
Various lysates were subjected to SDS PAGE followed by western blot with 83099-2-RR (TGN46 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



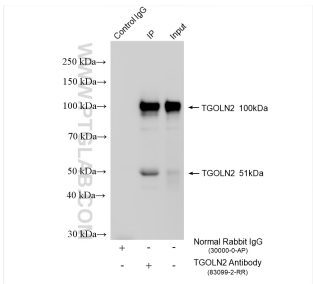
Immunohistochemical analysis of paraffin-embedded stomach cancer slide using 83099-2-RR (TGN46 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



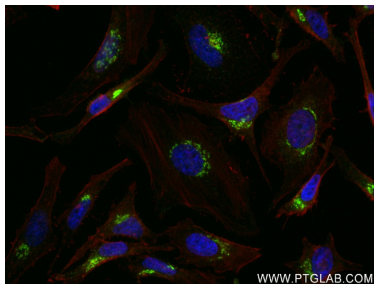
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TGN46 antibody (83099-2-RR, Clone: 230376D6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



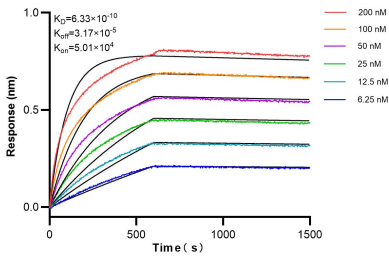
1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug TGN46 Recombinant antibody (83099-2-RR, Clone:230376D6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-TGN46 (IP:83099-2-RR, 4ug; Detection:83099-2-RR 1:2000) with HeLa cells lysate 980 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TGN46 antibody (83099-2-RR, Clone: 230376D6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83099-2-RR against Human TGN46 were performed. The affinity constant is 0.633 nM.