

# TGOLN2,TGN46 Recombinant antibody

Catalog Number: 83099-2-RR

## Basic Information

**Catalog Number:**

83099-2-RR

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**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:**

90-100 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

230376D6

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:125-1:500

## Applications

**Tested Applications:**

WB, IP, IF/ICC, ELISA

**Species Specificity:**

Human

**Positive Controls:****WB :** A549 cells, HeLa cells, PC-3 cells, PC-12 cells, human kidney tissue**IP :** HeLa cells,**IF :** HeLa cells,

## 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.

## Storage

**Storage:**

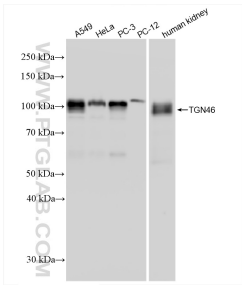
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

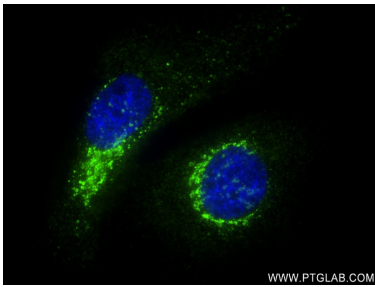
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

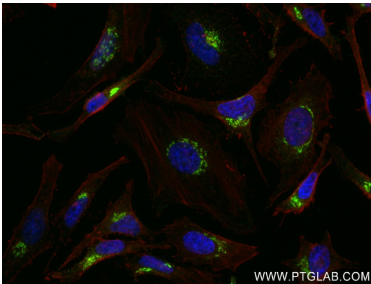
Selected Validation Data



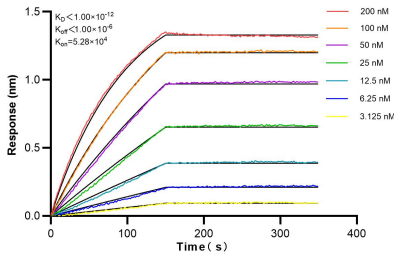
Various lysates were subjected to SDS PAGE followed by western blot with 83099-2-RR (TGOLN2,TGN46 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TGOLN2,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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TGOLN2,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 TGOLN2/TGN46 were performed. The affinity constant is below 1 pM.

IP result of anti-TGOLN2,TGN46 (IP:83099-2-RR, 4ug; Detection:83099-2-RR 1:2000) with HeLa cells lysate 980 ug.