

For Research Use Only

# GOLGA2/GM130 Recombinant antibody, PBS Only

Catalog Number: 82705-8-PBS

Featured Product



## Basic Information

**Catalog Number:**

82705-8-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1848

**GenBank Accession Number:**

BC014188

**GeneID (NCBI):**

2801

**UNIPROT ID:**

Q08379

**Full Name:**

golgi autoantigen, golgin subfamily a, 2

**Calculated MW:**

111 kDa

**Observed MW:**

130-140 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1M17

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**

human, rat

## Background Information

GOLGA2, also known as GM130, is a 130 kDa cis-Golgi matrix protein which is one component of the detergent and salt resistant Golgi matrix. It is a peripheral membrane protein highly bound to Golgi membrane and localized mainly at the cytoplasmic face of cis-Golgi membrane. Together with its interacting partner proteins, including p115, giantin, GRASP65, and Rab GTPase, GOLGA2/GM130 is involved in the regulation of ER-to-Golgi transport and also in the maintenance of the Golgi structure. Emerging evidence suggest that the GOLGA2/GM130 has potential roles in the control of glycosylation, cell cycle progression, and higher order cell functions such as cell polarization and directed cell migration. (PMID: 20197635)

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

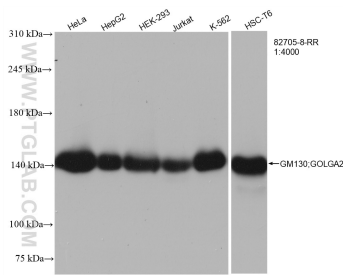
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

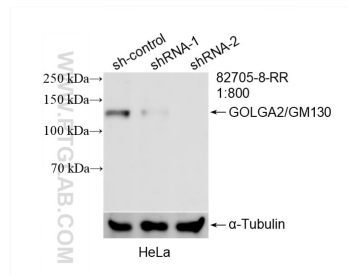
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

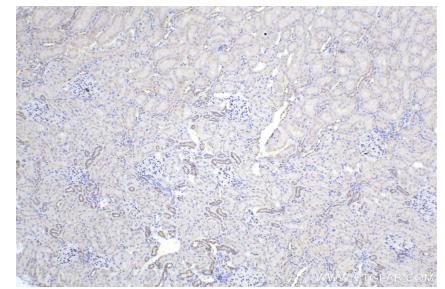
## Selected Validation Data



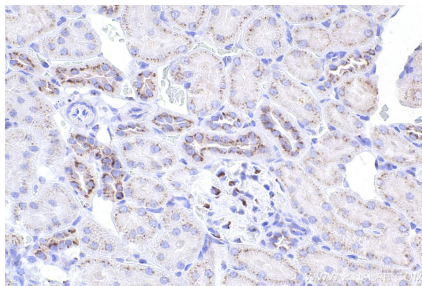
Various lysates were subjected to SDS PAGE followed by western blot with 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



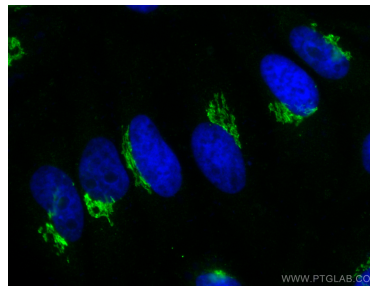
WB result of GOLGA2/GM130 antibody (82705-8-RR; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-GOLGA2/GM130 transfected HeLa cells. This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



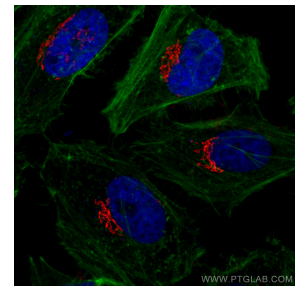
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



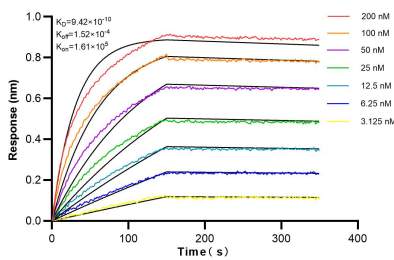
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GOLGA2/GM130 antibody (82705-8-RR, Clone: 1M17) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GOLGA2/GM130 antibody (82705-8-RR, Clone: 1M17) at dilution of 1:800 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green). This data was developed using the same antibody clone with 82705-8-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82705-8-RR against Human GM130/GOLGA2 were performed. The affinity constant is 0.942 nM.