

For Research Use Only

# GOLGA2/GM130 Recombinant antibody

Catalog Number: 82705-8-RR

Featured Product



## Basic Information

<b>Catalog Number:</b> 82705-8-RR	<b>GenBank Accession Number:</b> BC014188	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2801	<b>CloneNo.:</b> 1M17
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08379	<b>Recommended Dilutions:</b> WB 1:1000-1:8400 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> golgi autoantigen, golgin subfamily a, 2	
<b>Immunogen Catalog Number:</b> AG1848	<b>Calculated MW:</b> 111 kDa	
	<b>Observed MW:</b> 130-140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, rat	<b>WB :</b> HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> rat kidney tissue,
	<b>IF/ICC :</b> HeLa cells,

## 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

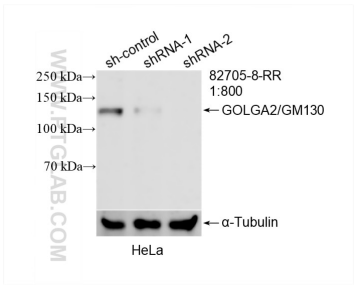
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

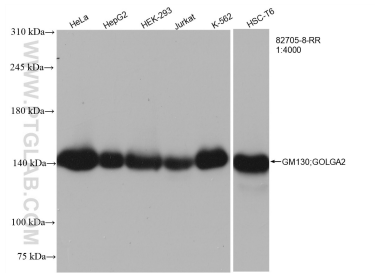
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

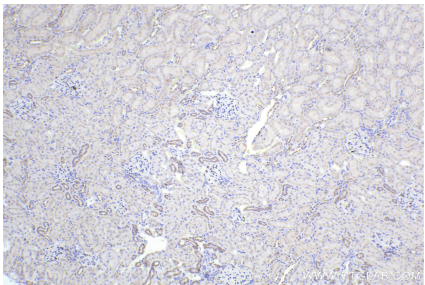
Selected Validation Data



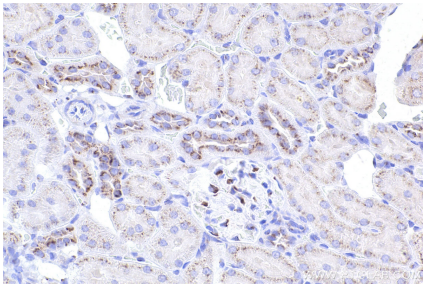
WB result of GOLGA2/GM130 antibody (82705-8-RR; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-GOLGA2/GM130 transfected HeLa cells.



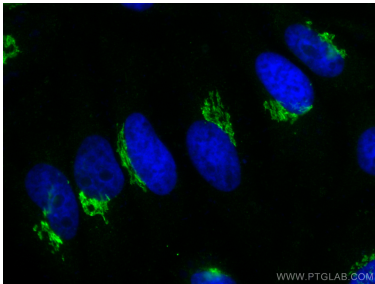
Various lysates were subjected to SDS PAGE followed by western blot with 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



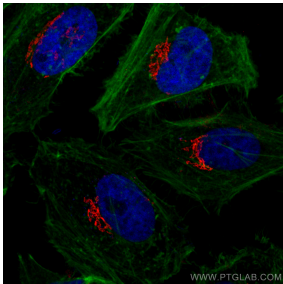
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



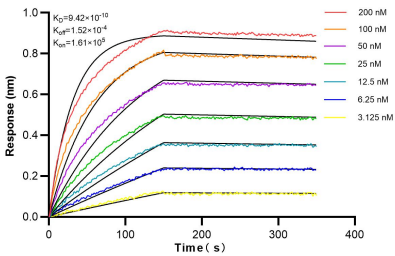
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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