

For Research Use Only

GOLGA2/GM130 Recombinant antibody

Catalog Number: 82705-8-RR

Featured Product



Basic Information

Catalog Number:

82705-8-RR

Size:

400 ug/ml

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

Recommended Dilutions:

WB 1:1000-1:8400

IHC 1:250-1:1000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, rat

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 : HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells

IHC : rat kidney tissue,

IF/ICC : 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

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

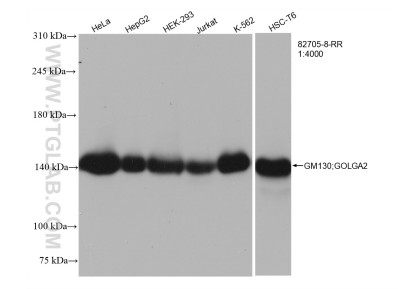
T: 4006900926

E: Proteintech-CN@ptglab.com

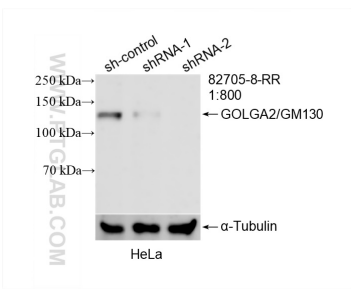
W: ptgcn.com

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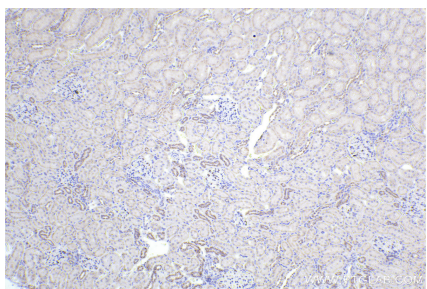
Selected Validation Data



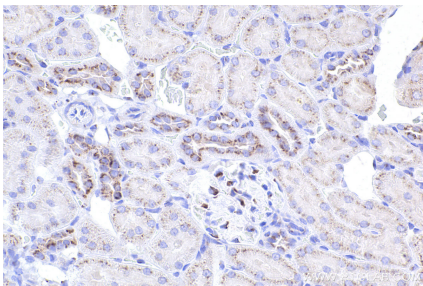
Various lysates were subjected to SDS PAGE followed by western blot with 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



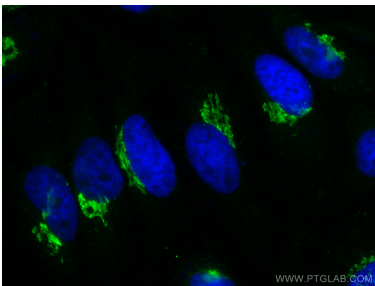
WB result of GOLGA2/GM130 antibody (82705-8-RR; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-GOLGA2/GM130 transfected HeLa cells.



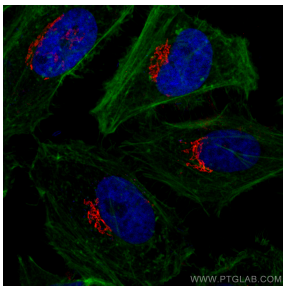
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



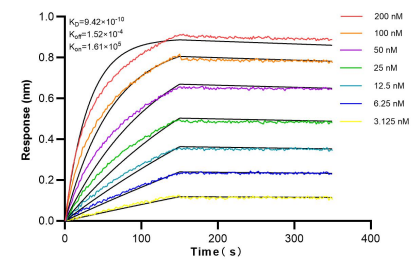
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82705-8-RR (GOLGA2/GM130 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.