

For Research Use Only

# GOLPH3 Monoclonal antibody

Catalog Number: 67777-1-Ig

Featured Product

1 Publications



## Basic Information

Catalog Number:

67777-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG5443

GenBank Accession Number:

BC033725

GeneID (NCBI):

64083

UNIPROT ID:

Q9H4A6

Full Name:

golgi phosphoprotein 3 (coat-protein)

Calculated MW:

298 aa, 34 kDa

Observed MW:

34 kDa

Purification Method:

Protein A purification

CloneNo.:

3H2A5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

PLA

Species Specificity:

human, mouse, rat

Cited Species:

human

**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, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

**IHC** : human colon cancer tissue, human liver cancer tissue

**IF/ICC** : HeLa cells,

## Background Information

GOLPH3 (also called GPP34, GMx33, MIDAS, or yeast Vps74p) is a 34-kDa Golgi-associated protein conserved from yeast to human. GOLPH3 binds to PtdIns(4)P-rich trans-Golgi membranes and MYO18A conveying a tensile force required for efficient tubule and vesicle formation (PMID: 19837035). GOLPH3 has been recently demonstrated as a novel oncoprotein amplified in various types of human malignancies, including melanoma, breast, non-small cell lung cancer, gliomas and connective tissue tumors (PMID:19553991; 23006319; 21499727; 22745132). Enhanced activation of mTOR signaling represents a molecular basis for the oncogenic activity of GOLPH3 (PMID: 19553991).

## Notable Publications

| Author       | Pubmed ID | Journal        | Application |
|--------------|-----------|----------------|-------------|
| Jun-Wei Song | 34671013  | Cell Death Dis | PLA         |

## 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:

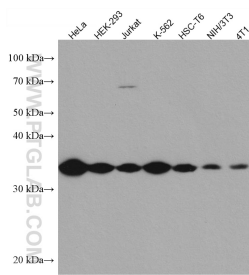
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

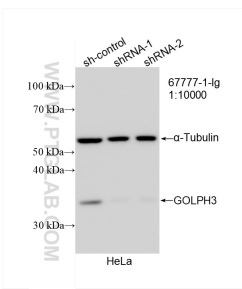
W: [ptgcn.com](http://ptgcn.com)

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

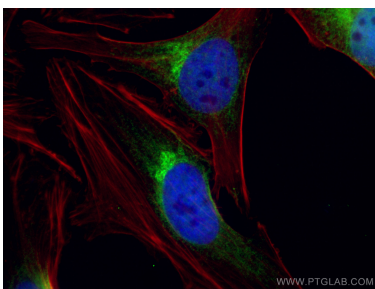
Selected Validation Data



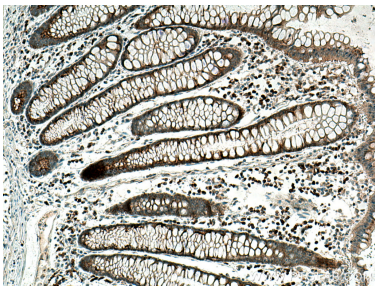
Various lysates were subjected to SDS PAGE followed by western blot with 67777-1-Ig (GOLPH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



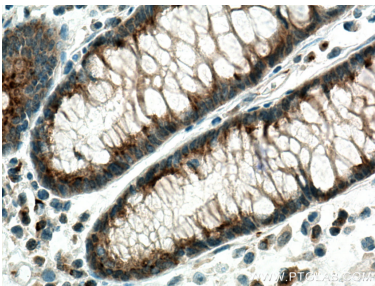
WB result of GOLPH3 antibody (67777-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GOLPH3 transfected HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GOLPH3 antibody (67777-1-Ig, Clone: 3H2A5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67777-1-Ig (GOLPH3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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