For Research Use Only

GOLPH3 Monoclonal antibody

Catalog Number:67777-1-Ig Featured Product 1 Publications

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Basic Information

Catalog Number:
67777-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

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 cellls, 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

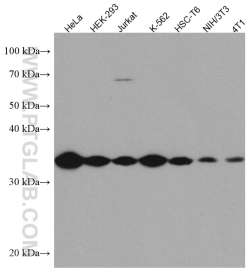
Storage

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

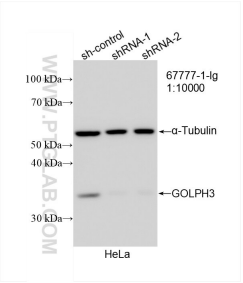
*** 20ul sizes contain 0.1% BSA

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

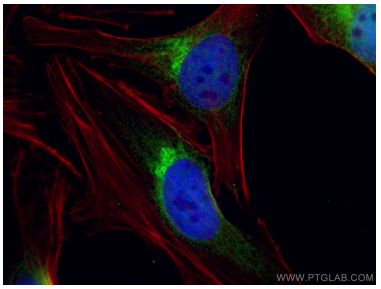
Selected Validation Data



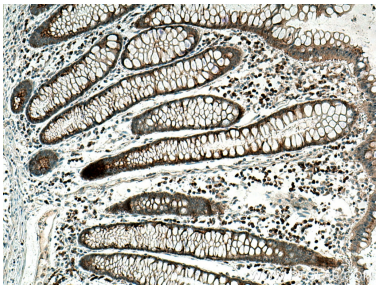
Various lysates were subjected to SDS PAGE followed by western blot with 67777-1-Ig (GOLPH3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



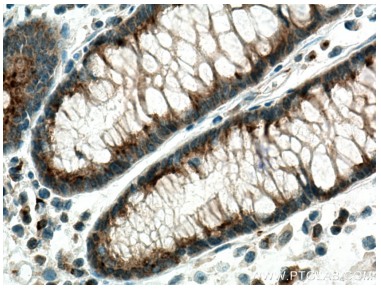
WB result of GOLPH3 antibody (67777-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GOLPH3 transfected HeLa cells.



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).



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).