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Datasheet for 600-401-BM4

GOLPH3 Antibody

Overview

Description:	Anti-GOLPH3 (RABBIT) Antibody - 600-401-BM4
Item No.:	600-401-BM4
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	GOLPH3 was initially identified as a peripheral membrane protein localized to the trans-Golgi network, but others reported it to be primarily a mitochondrial protein that regulated the mitochondrial mass through the regulation of the mitochondria-specific phospholipid cardiolipin. GOLPH3 has since been implicated in the target of rapamycin (TOR) signaling pathway. Its overexpression in transfected cells led to and increase in anchorage-independent growth and cell proliferation in vitro. Furthermore, GOLPH3-transfected cells enhanced S6 Kinase activity in response to growth factor stimulation by EGF. Simultaneously, AKT phosphorylation increased in these cells, while these events were abrogated in GOLPH3 siRNA treated cells compared to control cells, indicating the GOLPH3 can enhance signaling through TOR-associated complexes. These results suggest that GOLPH3 is a bona fide oncogene and may be a useful target for therapeutic strategies.
Synonyms:	GOLPH3 Antibody, GOPP1, GPP34, MIDAS, Golgi phosphoprotein 3, Coat protein GPP34
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GOLPH3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GOLPH3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the N-terminus of human GOLPH3.
Purity/Specificity:	Anti-GOLPH3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with GOLPH3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9H4A6 • GeneID - 64083 • NCBI - AAH12123

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-GOLPH3 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 34 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
WB:	0.5-1 µg/mL

Formulation

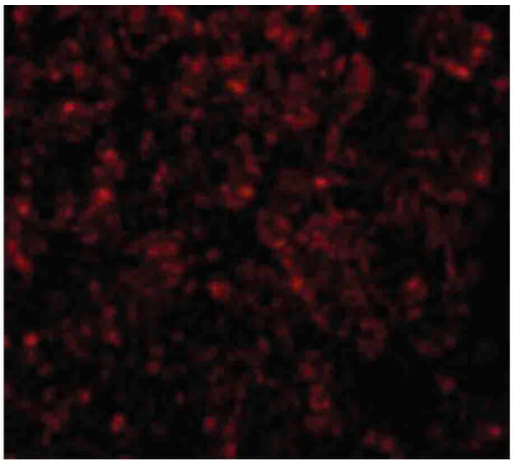
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

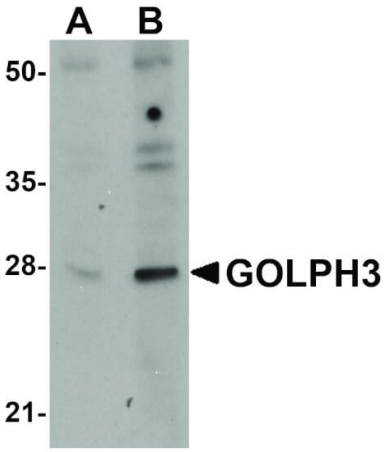
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of GOLPH3 antibody. Tissue: rat lung cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: GOLPH3 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: GOLPH3 is localized in the Golgi apparatus. Staining: GOLPH3 as red fluorescent signal.



Western Blot
Western Blot of GOLPH3 antibody. Lane 1: Rat lung tissue lysate with GOLPH3 antibody at 0.50 µg/mL. Lane 2: Rat lung tissue lysate with GOLPH3 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 34 kDa, 28 kDa for GOLPH3. Other band(s): GOLPH3 splice variants and isoforms.

Disclaimer

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