ARG55054
anti-GOLPH3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GOLPH3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GOLPH3
Species	Human
Immunogen	Synthetic peptide (14 aa) within the first 50 aa of Human GOLPH3.
Conjugation	Un-conjugated
Alternate Names	Mitochondrial DNA absence factor; Golgi phosphoprotein 3; GOPP1; Coat protein GPP34; MIDAS; Vps74; GPP34

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
ICC/IF	20 µg/ml
WB	0.5 - 1 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Rat Lung Tissue Lysate

Properties

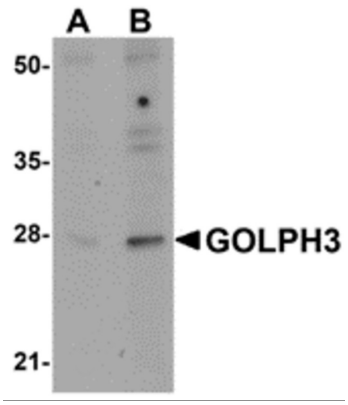
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

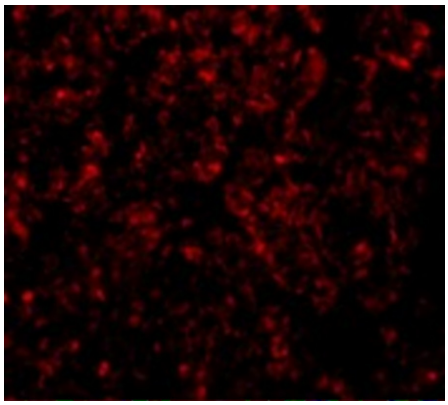
Database links	GeneID: 64083 Human GeneID: 66629 Mouse Swiss-port # Q9CRA5 Mouse Swiss-port # Q9H4A6 Human
Gene Symbol	GOLPH3
Gene Full Name	golgi phosphoprotein 3 (coat-protein)
Background	GOLPH3 Antibody: GOLPH3 was initially identified as a peripheral membrane protein localized to the trans-Golgi 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) signalling 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 signalling through TOR-associated complexes. These results suggest that GOLPH3 is a bona fide oncogene and may be a useful target for therapeutic strategies.
Function	Phosphatidylinositol-4-phosphate-binding protein that links Golgi membranes to the cytoskeleton and may participate in the tensile force required for vesicle budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could indirectly give its flattened shape to the Golgi apparatus. May also bind to the coatomer to regulate Golgi membrane trafficking. May play a role in anterograde transport from the Golgi to the plasma membrane and regulate secretion. Has also been involved in the control of the localization of Golgi enzymes through interaction with their cytoplasmic part. May play an indirect role in cell migration. Has also been involved in the modulation of mTOR signaling. May also be involved in the regulation of mitochondrial lipids biosynthesis. [UniProt]
Research Area	Controls and Markers antibody; Signaling Transduction antibody
Calculated Mw	34 kDa
PTM	Phosphorylated.

Images



ARG55054 anti-GOLPH3 antibody WB image

Western blot: rat lung tissue lysate stained with ARG55054 anti-GOLPH3 antibody at (A) 0.5 and (B) 1 ug/ml dilution.



ARG55054 anti-GOLPH3 antibody ICC/IF image

Immunofluorescence: Rat Lung cells stained with ARG55054 anti-GOLPH3 antibody at 20 ug/ml dilution.