

## Product datasheet for **TA306858**

### **GOLPH3 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	GOLPH3 antibody was raised against a 14 amino acid peptide from near the amino terminus of human GOLPH3.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	golgi phosphoprotein 3
Database Link:	<a href="#">AAH12123</a> <a href="#">Entrez Gene 64083 Human</a> <a href="#">Q9H4A6</a>



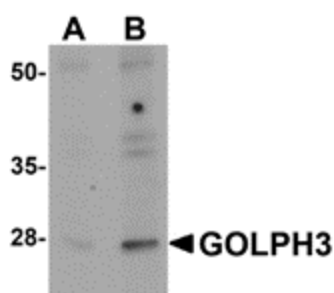
[View online »](#)

**Background:**

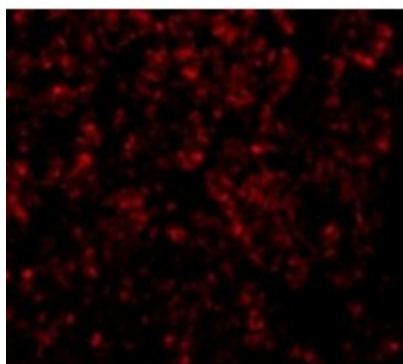
GOLPH3 was initially identified as a peripheral membrane protein localized to the trans-Golgi network, but others reported it to be primarily a mitochondrial protein that regulated the mitochondrial mass through the regulation of the mitochondria-specific phospholipid cardiolipin. GOLPH3 has since been implicated in the target of rapamycin (TOR) 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.

**Synonyms:**

GOPP1; GPP34; MIDAS; Vps74

**Product images:**


Western blot analysis of GOLPH3 in rat lung tissue lysate with GOLPH3 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunofluorescence of GOLPH3 in Rat Lung cells with GOLPH3 antibody at 20 ug/mL.