Data Sheet (Cat.No.TMAB-06627)

Anti-GOLGA1 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 88 kDa. Actual: 100 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Rat Testis tissue lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Human HepG2 cell lysates Lane 6: Human MDA-MB-231 cell lysates Lane 7: Human HeLa cell lysates Lane 8: Human MCF-7 cell lysates Lane 9: Human A431 cell lysates Primary: Anti-GOLGA1 (TMAB-06627) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 88 kDa Observed band size: 100 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GOLGA1
Antigen Species:	Human
Gene ID:	2800
Uniprot ID:	Q92805

Research Background

The GRIP family member, golgin 97, is a trans-Golgi network peripheral membrane protein with an extensive coiled-coil structure (67% alpha-helical content) and a C-terminal GRIP domain. Golgin 97 localizes exclusively on the cytoplasmic face of the Golgi and can form homodimers. Binding of golgin 97 to the Golgi membrane is mediated by the G protein family member, Arl1. Golgin 97 acts as an essential player to the cell in the form of a tethering molecule associating with tubulovesicular carriers during the trafficking from the trans-Golgi network to the

recycling endosome and/or early endosome. During poxvirus infection, golgin 97 accumulates at the site of viral replication and is incorporated into virions. It associates with the insoluble fraction of the virus core protein, playing a significant role in virus replication and maturation of the virus membrane and core protein. Golgin 97 takes on a rod-like shape and, although it seemingly lacks a transmembrane domain, it protrudes from the surface of the virion envelope.

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