**golgin 97 (CDF4): sc-73619**

**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 virosomes. 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.

**CHROMOSOMAL LOCATION**

Genetic locus: GOLGA1 (human) mapping to 9q33.3; Golga1 (mouse) mapping to 2 B.

**SOURCE**

golgin 97 (CDF4) is a mouse monoclonal antibody raised against full length golgin 97 of human origin.

**PRODUCT**

Each vial contains 200 \(\mu\)g IgG\(_k\) kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

golgin 97 (CDF4) is available conjugated to either phycoerythrin (sc-73619 PE) or fluorescein (sc-73619 FITC), 200 \(\mu\)g/ml, for WB (RGB), IF, IHC(P) and FCM.

**APPLICATIONS**

golgin 97 (CDF4) is recommended for detection of golgin 97 of broad origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 \(\mu\)g per 100-500 \(\mu\)g of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 \(\mu\)g per 1 \times 10\(^6\) cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for golgin 97 siRNA (h): sc-75162, golgin 97 siRNA (m): sc-75163, golgin 97 shRNA Plasmid (h): sc-75162-SH, golgin 97 shRNA Plasmid (m): sc-75163-SH, golgin 97 shRNA (h) Lentiviral Particles: sc-75162-V and golgin 97 shRNA (m) Lentiviral Particles: sc-75163-V.

Molecular Weight of golgin 97: 97 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, Neuro-2A whole cell lysate: sc-364185 or F9 cell lysate: sc-2245.

**STORAGE**

Store at 4º C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

![Western blot analysis of golgin 97 expression in T-47D (A), Hep G2 (B), SW480 (C), MCF7 (D), HeLa (E) and U-87 MG (F) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.