SANTA CRUZ BIOTECHNOLOGY, INC.

GOLPH3 (905CT9.1.1): sc-517333

BACKGROUND

GOLPH3 (Golgi phosphoprotein 3), also known as GOPP1, GPP34 or MIDAS, is a 298 amino acid protein that localizes to both the cytoplasm and the Golgi stack membrane where it is thought to play a regulatory role in protein trafficking within the Golgi. GOLPH3 is subject to post-translational phosphorylation and is encoded by a gene which maps to human chromosome 5. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: GOLPH3 (human) mapping to 5p13.3.

SOURCE

GOLPH3 (905CT9.1.1) is a mouse monoclonal antibody raised against purified His-tagged GOLPH3 protein fragment of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

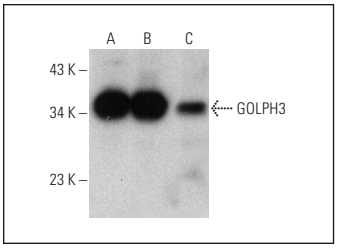
GOLPH3 (905CT9.1.1) is recommended for detection of GOLPH3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for GOLPH3 siRNA (h): sc-91952, GOLPH3 shRNA Plasmid (h): sc-91952-SH and GOLPH3 shRNA (h) Lentiviral Particles: sc-91952-V.

Molecular Weight of GOLPH3: 34 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, MDA-MB-231 cell lysate: sc-2232 or human skeletal muscle extract: sc-363776.

DATA



GOLPH3 (905CT9.1.1): sc-517333. Western blot analysis of GOLPH3 expression in HEK293 (**A**) and MDA-MB-231 (**B**) whole cell lysates and human skeletal muscle tissue extract (**C**).

STORAGE

Store at 4° 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.

PROTOCOLS

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