

# GOLGA7 (NO-2): sc-101278

## BACKGROUND

GOLGA7 (golgin subfamily A member 7), also known as GCP16 (Golgi complex-associated protein of 16 kDa) or GOLGA3AP1, is a multi-pass membrane protein belonging to the eRF4 family of proteins. It is the functional ortholog of the yeast eRF4 protein. Localizing to the Golgi apparatus, GOLGA7 is a widely expressed protein but its expression is absent from colon and thymus tissues. GOLGA7 is palmitoylated on two cysteine residues, and this palmitoylation is required for its interaction with golgin 160 and its Golgi-localization. GOLGA7 also forms a complex with ZDHHC9 and together, these proteins function as a Ras palmitoyltransferase (Ras PAT) which is required for palmitoylation of H-Ras and N-Ras proteins. The palmitoylation of Ras proteins is essential for the trafficking of Ras proteins from the Golgi to the plasma membrane, thus implicating GOLGA7 in protein transport from the Golgi to the cell surface.

## REFERENCES

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- Steck, E., Bräun, J., Pelttari, K., Kadel, S., Kalbacher, H. and Richter, W. 2007. Chondrocyte secreted CRTAC1: a glycosylated extracellular matrix molecule of human articular cartilage. *Matrix Biol.* 26: 30-41.

## CHROMOSOMAL LOCATION

Genetic locus: GOLGA7 (human) mapping to 8p11.21; Golga7 (mouse) mapping to 8 A2.

## SOURCE

GOLGA7 (NO-2) is a mouse monoclonal antibody raised against recombinant GOLGA7 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

GOLGA7 (NO-2) is recommended for detection of GOLGA7 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GOLGA7 siRNA (h): sc-77564, GOLGA7 siRNA (m): sc-145667, GOLGA7 shRNA Plasmid (h): sc-77564-SH, GOLGA7 shRNA Plasmid (m): sc-145667-SH, GOLGA7 shRNA (h) Lentiviral Particles: sc-77564-V and GOLGA7 shRNA (m) Lentiviral Particles: sc-145667-V.

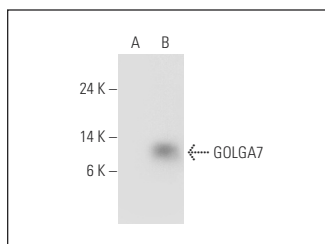
Molecular Weight of GOLGA7: 16 kDa.

Positive Controls: GOLGA7 (h): 293T Lysate: sc-113792.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



GOLGA7 (NO-2): sc-101278. Western blot analysis of GOLGA7 expression in non-transfected: sc-117752 (A) and human GOLGA7 transfected: sc-113792 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- Zhang, Z., Li, X., Yang, F., Chen, C., Liu, P., Ren, Y., Sun, P., Wang, Z., You, Y., Zeng, Y.X. and Li, X. 2021. DHH9-mediated GLUT1 S-palmitoylation promotes glioblastoma glycolysis and tumorigenesis. *Nat. Commun.* 12: 5872.

## STORAGE

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