

GOLGA7 (h): 293T Lysate: sc-113792

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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CHROMOSOMAL LOCATION

Genetic locus: GOLGA7 (human) mapping to 8p11.21.

PRODUCT

GOLGA7 (h): 293T Lysate represents a lysate of human GOLGA7 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

GOLGA7 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive GOLGA7 antibodies. Recommended use: 10-20 µl per lane.

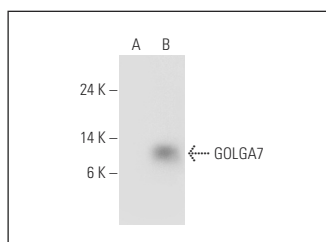
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GOLGA7 (NO-2): sc-101278 is recommended as a positive control antibody for Western Blot analysis of enhanced human GOLGA7 expression in GOLGA7 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

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.

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.