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GNA1 (m): 293T Lysate: sc-120547

BACKGROUND

Glucosamine 6-phosphate N-acetyltransferase (GNA1), also designated phosphoglucosamine transacetylase or phosphoglucosamine acetylase, belongs to the GNA1 subfamily of the larger acetyltransferase family of proteins. GNA1, a peripheral membrane protein containing one N-acetyltransferase domain, is expressed in the colon and maps to cytoband 14q22.1. The protein localizes to the Golgi apparatus and the endosome. It is important for UDP-GlcNAc biosynthesis pathway. GNA1 catalyzes the synthesis of GlcNAc6P from AcCoA and GlcN6P, a step in the UDP-GlcNAc6P formation pathway.

REFERENCES

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- Jiang, H., Wang, S., Dang, L., Wang, S., Chen, H., Wu, Y., Jiang, X. and Wu, P. 2005. A novel short-root gene encodes a glucosamine-6-phosphate acetyltransferase required for maintaining normal root cell shape in rice. *Plant Physiol.* 138: 232-242.

CHROMOSOMAL LOCATION

Genetic locus: Gnpnat1 (mouse) mapping to 14 C1.

PRODUCT

GNA1 (m): 293T Lysate represents a lysate of mouse GNA1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

GNA1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GNA1 antibodies. Recommended use: 10-20 µl per lane.

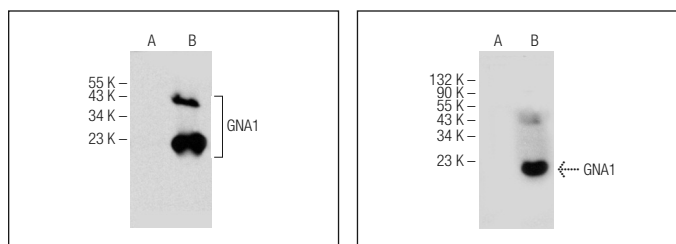
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GNA1 (A-3): sc-374519 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GNA1 expression in GNA1 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



GNA1 (A-3): sc-374519. Western blot analysis of GNA1 expression in non-transfected: sc-117752 (A) and mouse GNA1 transfected: sc-120547 (B) 293T whole cell lysates.

GNA1 (C-10): sc-374520. Western blot analysis of GNA1 expression in non-transfected: sc-117752 (A) and mouse GNA1 transfected: sc-120547 (B) 293T whole cell lysates.

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.

PROTOCOLS

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