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SANTA CRUZ BIOTECHNOLOGY, INC.

ARFGAP1/3 (h4): 293T Lysate: sc-174378

BACKGROUND

G protein-coupled receptor kinases (GRKs) are activated by activated G protein-coupled receptors, and they function to phosphorylate and inactivate cell surface receptors in the heterotrimeric G protein signaling cascade. GIT1 (for GRK-interactor 1) and GIT2 are GTPase-activating proteins (GAPs) for members of the ADP ribosylation factor (ARF) family of small GTP-binding proteins, which are involved in vesicular trafficking. Another member of the ARF family, the cytoplasmic ARFGAP (ADP-ribosylation factor GTPase-activating protein) 1/3 protein, is involved in the dissociation of coat proteins from Golgi-derived membranes and vesicles. ARFGAP1/3, a cytoplasmic protein localizing to the perinuclear region, plays a role in protein secretion and vesicle transport and promotes hydrolysis of GTP bound to ARF1. The activity of the ARFGAP1/3 protein is phospholipid sensitive. It is primarily expressed in endocrine glands and testis, but is also highly expressed in adult brain, thymus and lung.

REFERENCES

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5. Yoon, H.Y., Jacques, K., Nealon, B., Stauffer, S., Premont, R.T. and Randazzo, P.A. 2004. Differences between AGAP1, ASAP1 and ARFGAP1 in substrate recognition: interaction with the N-terminus of ARF1. Cell. Signal. 16: 1033-1044.
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CHROMOSOMAL LOCATION

Genetic locus: ARFGAP3 (human) mapping to 22q13.2.

PRODUCT

ARFGAP1/3 (h4): 293T Lysate represents a lysate of human ARFGAP1/3 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

ARFGAP1/3 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive ARFGAP1/3 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.

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.