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FAPP2 (h2): 293T Lysate: sc-172696

BACKGROUND

The members of the phosphatidylinositol kinase (PIK) superfamily can be divided into three groups based on their substrate specificity. PIKs convert phosphatidylinositol (PI) into PI phosphate [PI(3)P], PI phosphate [PI(4)P], PI bisphosphate [PI(4,5)P₂] and PI triphosphate [PI(3,4,5)P₃]. Phosphatidylinositides represent important regulatory molecules and are involved in a diverse array of signaling pathways. The phosphatidylinositol-four-phosphate adapter proteins, FAPP1, also designated Pleckstrin homology domain-containing family A member 3 (PLEKHA3), and FAPP2, also designated Pleckstrin homology domain-containing family A member 8 (PLEKHA8), interact with PI(4)P to mediate transport between the *trans*-Golgi network and plasma membrane.

REFERENCES

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2. Godi, A., et al. 2004. FAPPs control Golgi-to-cell-surface membrane traffic by binding to ARF and PtdIns(4)P. *Nat. Cell Biol.* 6: 393-404.
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5. Yui, N., et al. 2009. FAPP2 is required for aquaporin-2 apical sorting at *trans*-Golgi network in polarized MDCK cells. *Am. J. Physiol., Cell Physiol.* 297: C1389-C1396.
6. Tritz, R., et al. 2009. FAPP2 gene downregulation increases tumor cell sensitivity to Fas-induced apoptosis. *Biochem. Biophys. Res. Commun.* 383: 167-171.
7. Cao, X., et al. 2009. Golgi protein FAPP2 tubulates membranes. *Proc. Natl. Acad. Sci. USA* 106: 21121-21125.
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CHROMOSOMAL LOCATION

Genetic locus: PLEKHA8 (human) mapping to 7p14.3.

PRODUCT

FAPP2 (h2): 293T Lysate represents a lysate of human FAPP2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

RESEARCH USE

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

APPLICATIONS

FAPP2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive FAPP2 antibodies. Recommended use: 10-20 μ l per lane.

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

PROTOCOLS

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