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Rab 14 (m2): 293T Lysate: sc-127428

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies all of which are thought to play an important role in either endocytosis or in biosynthetic protein transport. The process of transporting newly synthesized proteins from the endoplasmic reticulum (ER) to various stacks of the Golgi complex and to secretory vesicles involves the movement of carrier vesicles and requires Rab protein function. Rab proteins are also an integral part of endocytic pathways. Rab 14, also known as FBP, is a 215 amino acid protein that is lipid-anchored to the cytoplasmic side of the cell membrane. One of several members of the Rab subfamily of small GTPases, Rab 14 is thought to be involved in vesicular trafficking and neurotransmitter release throughout the body and is expressed at high levels in brain, lung, kidney, spleen and thymus.

REFERENCES

1. Olkkonen, V.M., Dupree, P., Killisch, I., Lütcke, A., Zerial, M. and Simons, K. 1993. Molecular cloning and subcellular localization of three GTP-binding proteins of the Rab subfamily. *J. Cell Sci.* 106: 1249-1261.
2. Chen, D., Guo, J. and Gahl, W.A. 1997. Rab GTPases expressed in human melanoma cells. *Biochim. Biophys. Acta* 1355: 1-6.
3. Zhao, H., Ettala, O. and Väänänen, H.K. 2002. Intracellular membrane trafficking pathways in bone-resorbing osteoclasts revealed by cloning and subcellular localization studies of small GTP-binding Rab proteins. *Biochem. Biophys. Res. Commun.* 293: 1060-1065.
4. Junutula, J.R., De Maziere, A.M., Peden, A.A., Ervin, K.E., Advani, R.J., van Dijk, S.M., Klumperman, J. and Scheller, R.H. 2004. Rab14 is involved in membrane trafficking between the Golgi complex and endosomes. *Mol. Biol. Cell* 15: 2218-2229.
5. Echard, A. 2008. Membrane traffic and polarization of lipid domains during cytokinesis. *Biochem. Soc. Trans.* 36: 395-399.
6. Gou, D., Mishra, A., Weng, T., Su, L., Chintagari, N.R., Wang, Z., Zhang, H., Gao, L., Wang, P., Stricker, H.M. and Liu, L. 2008. Annexin A2 interactions with Rab 14 in alveolar type II cells. *J. Biol. Chem.* 283: 13156-13164.
7. Fukuda, M., Kanno, E., Ishibashi, K. and Itoh, T. 2008. Large scale screening for novel Rab effectors reveals unexpected broad Rab binding specificity. *Mol. Cell. Proteomics* 7: 1031-1042.
8. Kitt, K.N., Hernández-Deviez, D., Ballantyne, S.D., Spiliotis, E.T., Casanova, J.E. and Wilson, J.M. 2008. Rab 14 regulates apical targeting in polarized epithelial cells. *Traffic* 9: 1218-1231.
9. Online Mendelian Inheritance in Man, OMIM™. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 612673. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Rab14 (mouse) mapping to 2 B1.

PRODUCT

Rab 14 (m2): 293T Lysate represents a lysate of mouse Rab 14 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Rab 14 (m2): 293T Lysate is suitable as a Western Blotting positive control or mouse reactive Rab 14 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.

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.

PROTOCOLS

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