



RABAPTIN-5 (511-810): sc-4346 WB

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins, which includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies, exhibits 30-60% homology with Ras p21. Accumulating data suggests an important role for Rab proteins, either in endocytosis or in biosynthetic protein transport. The transport of newly synthesized proteins from the endoplasmic reticulum to various stacks of the Golgi complex and to secretory vesicles involves at each stage the movement of carrier vesicles, a process that appears to involve Rab protein function. Rab proteins are also an integral part of endocytic pathways. For example, Rab 5 is a potent regulator of endocytic transport that is localized to the plasma membrane, Clathrin coated pits and early endosomes. A possible downstream effector of Rab 5, designated RABAPTIN-5, is a predicted 100 kDa coiled-coil protein that physically associates with Rab 5. Immunodepletion of RABAPTIN-5 strongly inhibits Rab5-dependent early endosome fusion and may be required for membrane docking and fusion.

REFERENCES

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STORAGE

Store at -20° C; stable for one year from the date of shipment.

SOURCE

RABAPTIN-5 (511-810) is expressed in *E. coli* as a 60 kDa tagged fusion protein corresponding to amino acids 511-810 of RABAPTIN-5 of human origin.

PRODUCT

RABAPTIN-5 (511-810) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

RABAPTIN-5 (511-810) is suitable as a Western blotting control for sc-15351.

RESEARCH USE

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