

Rab 6 (FL-208): sc-28571

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins, which includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies, exhibit 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. The possibility that Rab proteins might also direct the exocytosis from secretory vesicles to the plasma membrane is supported by the observation that in yeast, the Sec4 protein, which is 40% homologous to Rab proteins, is associated with secretory vesicles. At least eight members of the Rab subfamily have been identified, each of which is found at a particular stage of a membrane transport pathway. Rab 6, also known as RAB6B, RAB6A or RAB6A, is a 208 amino acid protein that is ubiquitously expressed and is a member of the small GTPase superfamily.

REFERENCES

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- Chen, Y., et al. 1993. Expression and localization of two low molecular weight GTP-binding proteins, Rab 8 and Rab 10, by epitope tag. *Proc. Natl. Acad. Sci. USA* 90: 6508-6512.

SOURCE

Rab 6 (FL-208) is a rabbit polyclonal antibody raised against amino acids 1-208 representing full length Rab 6A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Rab 6 (FL-208) is recommended for detection of Rab 6A, 6B and 6C of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000; partially cross reactive with other Rab family members).

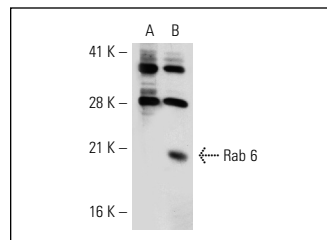
Rab 6 (FL-208) is also recommended for detection of Rab 6A, 6B and 6C in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Rab 6 siRNA (h): sc-44063, Rab 6 siRNA (m): sc-44064, Rab 6 shRNA Plasmid (h): sc-44063-SH, Rab 6 shRNA Plasmid (m): sc-44064-SH, Rab 6 shRNA (h) Lentiviral Particles: sc-44063-V and Rab 6 shRNA (m) Lentiviral Particles: sc-44064-V.

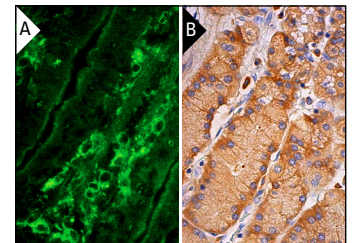
Molecular Weight of Rab 6: 25 kDa.

Positive Controls: Rab 6 (h): 293 Lysate: sc-111279 or NIH/3T3 whole cell lysate: sc-2210.

DATA



Rab 6 (FL-208): sc-28571. Western blot analysis of Rab 6 expression in non-transfected: sc-110760 (A) and human Rab 6 transfected: sc-111279 (B) 293 whole cell lysates.



Rab 6 (FL-208): sc-28571. Immunofluorescence staining of normal mouse intestine frozen section showing cytoplasmic staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lower stomach tissue showing cytoplasmic and membrane staining of glandular cells (B).

RESEARCH USE

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

PROTOCOLS

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



Try **Rab 6 (3G3): sc-293221** or **Rab 6A (38-TB): sc-81913**, our highly recommended monoclonal alternatives to Rab 6 (FL-208).