

Rab 8B (1E4): sc-517045

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins, which includes the R-Ras, Rap, Ral/Rec and Rho/Rab superfamilies 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. Rab 8B (ras-related protein Rab-8B) is a 207 amino acid lipid anchor that localizes to the cytoplasmic side of the cell membrane and belongs to the Rab family and small GTPase superfamily. Rab 8B may be involved in neurotransmitter release and vesicular trafficking, and is encoded by a gene located on human chromosome Rab 8B and mouse chromosome 9 C.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RAB8B (human) mapping to 15q22.2; Rab8b (mouse) mapping to 9 C.

SOURCE

Rab 8B (1E4) is a mouse monoclonal antibody raised against amino acids 101-207 representing partial length Rab 8B of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG_{2b} kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Rab 8B (1E4) is recommended for detection of Rab 8B 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

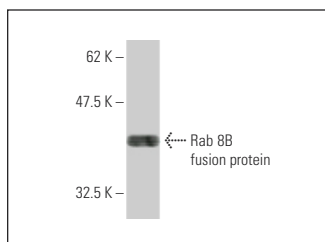
Suitable for use as control antibody for Rab 8B siRNA (h): sc-106474, Rab 8B siRNA (m): sc-152651, Rab 8B shRNA Plasmid (h): sc-106474-SH, Rab 8B shRNA Plasmid (m): sc-152651-SH, Rab 8B shRNA (h) Lentiviral Particles: sc-106474-V and Rab 8B shRNA (m) Lentiviral Particles: sc-152651-V.

Positive Controls: human brain tissue extract.

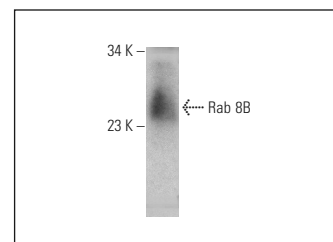
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Rab 8B (1E4): sc-517045. Western blot analysis of human recombinant Rab 8B fusion protein.



Rab 8B (1E4): sc-517045. Western blot analysis of Rab 8B expression in human brain tissue extract.

STORAGE

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

PROTOCOLS

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