



Rab 33B (RR-3): sc-81920

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies. Increasing data suggests an important role for Rab proteins in either endocytosis or in biosynthetic protein transport. The process of transporting newly synthesized proteins from the endoplasmic reticulum 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 33B is a ubiquitously expressed member of the Rab family of proteins and co-localizes with α -mannosidase II (a Golgi marker) at the medial-Golgi cisternae. Rab 33B and Rab 33A share conserved effector domains but share only 55.3% overall amino acid identity. This suggests that Rab 33B and Rab 33A may interact with similar effector and regulatory proteins. Rab 33B is believed to participate in intra-Golgi transport.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RAB33B (human) mapping to 4q31.1; Rab33b (mouse) mapping to 3 C.

SOURCE

Rab 33B (RR-3) is a mouse monoclonal antibody raised against recombinant Rab 33B of human origin.

PRODUCT

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

APPLICATIONS

Rab 33B (RR-3) is recommended for detection of Rab 33B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 33B siRNA (h): sc-88899, Rab 33B siRNA (m): sc-152638, Rab 33B shRNA Plasmid (h): sc-88899-SH, Rab 33B shRNA Plasmid (m): sc-152638-SH, Rab 33B shRNA (h) Lentiviral Particles: sc-88899-V and Rab 33B shRNA (m) Lentiviral Particles: sc-152638-V.

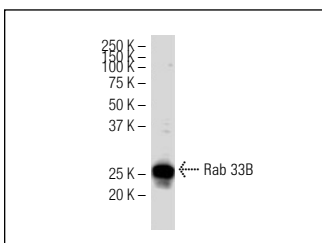
Molecular Weight of Rab 33B: 26 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 33B (RR-3): sc-81920. Western blot analysis of Rab 33B expression in A-431 whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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.