

# Rab 21 (170B2Q): sc-517620

## 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 21 is a ubiquitously expressed member of the Rab family of proteins and localizes to the Golgi membrane where it participates in endosomal trafficking of Integrins. More specifically, Rab 21 associates with the cytoplasmic domains of Integrin  $\alpha$  chains and is essential for Integrin-mediated cell motility and cell adhesion. The overexpression of Rab 21 induces the endosomal traffic of integrins and promotes cell migration and cancer cell adhesion.

## REFERENCES

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## STORAGE

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

## CHROMOSOMAL LOCATION

Genetic locus: RAB21 (human) mapping to 12q21.1.

## SOURCE

Rab 21 (170B2Q) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 1-225 representing full length Rab 21 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2b</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Rab 21 (170B2Q) is recommended for detection of Rab 21 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for Rab 21 siRNA (h): sc-76322, Rab 21 shRNA Plasmid (h): sc-76322-SH and Rab 21 shRNA (h) Lentiviral Particles: sc-76322-V.

Molecular Weight of Rab 21: 25 kDa.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.