

## Rab 18 (F-16): sc-68640

### BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies all of which are thought to play an important role in either endocytosis or in biosynthetic protein transport. The process of transporting newly synthesized proteins from the endoplasmic reticulum (ER) 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 18 is a 206 amino acid protein that is lipid-anchored to the cytoplasmic side of the cell membrane and belongs to the Rab subfamily of small GTPases. Expressed ubiquitously, Rab 18 plays a role in apical recycling and endocytosis and is also thought to be involved in protein transport between early endosomes and the plasma membrane.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: RAB18 (human) mapping to 10p12.1; Rab18 (mouse) mapping to 18 A1.

### SOURCE

Rab 18 (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Rab 18 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.

Blocking peptide available for competition studies, sc-68640 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Rab 18 (F-16) is recommended for detection of Rab 18 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Rab 18 (F-16) is also recommended for detection of Rab 18 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Rab 18 siRNA (h): sc-76316, Rab 18 siRNA (m): sc-76317, Rab 18 shRNA Plasmid (h): sc-76316-SH, Rab 18 shRNA Plasmid (m): sc-76317-SH, Rab 18 shRNA (h) Lentiviral Particles: sc-76316-V and Rab 18 shRNA (m) Lentiviral Particles: sc-76317-V.

Molecular Weight of Rab 18: 23 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), 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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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.



Try **Rab 18 (D-5): sc-393168**, our highly recommended monoclonal alternative to Rab 18 (F-16).