

# Rab 11 (C-19): sc-6565

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: RAB11A (human) mapping to 15q22.31, RAB11B (human) mapping to 19p13.2; Rab11a (mouse) mapping to 9 C, Rab11b (mouse) mapping to 17 B1.

## SOURCE

Rab 11 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Rab 11 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-6565 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Rab 11 (C-19) is recommended for detection of Rab 11A and, to a lesser extent, RAB 11B 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 11 (C-19) is also recommended for detection of Rab 11A and, to a lesser extent, RAB 11B in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of Rab 11: 25 kDa.

Positive Controls: Rab 11A (m): 293T Lysate: sc-122877, human platelet whole cell lysate: sc-363773 or K-562 whole cell lysate: sc-2203.

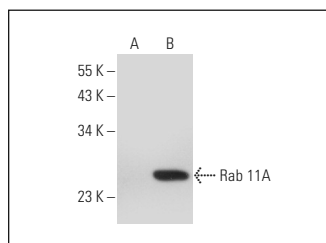
## STORAGE

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

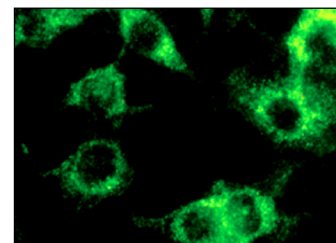
## RESEARCH USE

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

## DATA



Rab 11 (C-19): sc-6565. Western blot analysis of Rab 11A expression in non-transfected: sc-117752 (A) and mouse Rab 11A transfected: sc-122877 (B) 293T whole cell lysates.



Rab 11 (C-19): sc-6565. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Kreuzer, O.J., et al. 2001. Agonist-mediated endocytosis of rat somato-statin receptor subtype 3 involves  $\beta$ -Arrestin and clathrin coated vesicles. *J. Neuroendocrinol.* 13: 279-287.
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- Young, J.S., et al. 2012. Internalization of adhesion junction proteins and their association with recycling endosome marker proteins in rat seminiferous epithelium. *Reproduction* 143: 347-357.
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- Ovsepian, S.V., et al. 2014. Neurotrophin receptor p75 mediates the uptake of the amyloid beta (A $\beta$ ) peptide, guiding it to lysosomes for degradation in basal forebrain cholinergic neurons. *Brain Struct. Funct.* 219: 1527-1541.



Try **Rab 11A (A-6): sc-166912** or **Rab 11A (D-3): sc-166523**, our highly recommended monoclonal alternatives to Rab 11 (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **Rab 11A (A-6): sc-166912**.