

# Rab11-FIP4 (P-14): sc-165330

## BACKGROUND

The Ras superfamily of GTPases can be subdivided into the Ras, Rho/Rac, Sar, Rab, Arf, Rap and Ran subfamilies, all of which control multiple aspects of cell function, including cytoskeletal rearrangement, nuclear signaling and cell growth. Members of the Ras protein superfamily are regulated by a variety of GTPase-interaction proteins that control GTPase function. Rab11-FIP4 (RAB11 family interacting protein 4 (class II)), also known as arfophilin-2, is a 637 amino acid peripheral membrane protein that localizes to the midbody and cleavage furrow during cytokinesis. Highly expressed in testis with weak expression found in other tissues, Rab11-FIP4 plays a role in endocytic trafficking and cytokinesis, and exists as a homodimer that forms a complex with ARF6 and Rab11. Rab11-FIP4 contains one EF-hand domain, an RBD-FIP domain and exists as two alternatively spliced isoforms.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RAB11FIP4 (human) mapping to 17q11.2; Rab11fip4 (mouse) mapping to 11 B5.

## SOURCE

Rab11-FIP4 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Rab11-FIP4 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-165330 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Rab11-FIP4 (P-14) is recommended for detection of Rab11-FIP4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other Rab11-FIP family members.

Suitable for use as control antibody for Rab11-FIP4 siRNA (h): sc-93812, Rab11-FIP4 siRNA (m): sc-152663, Rab11-FIP4 shRNA Plasmid (h): sc-93812-SH, Rab11-FIP4 shRNA Plasmid (m): sc-152663-SH, Rab11-FIP4 shRNA (h) Lentiviral Particles: sc-93812-V and Rab11-FIP4 shRNA (m) Lentiviral Particles: sc-152663-V.

Molecular Weight of Rab11-FIP4: 72 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) 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<sup>™</sup> 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.

## PROTOCOLS

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