SANTA CRUZ BIOTECHNOLOGY, INC.

# Rab11-FIP3 (T-14): sc-165328

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## 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-FIP3 (Rab11 family-interacting protein 3), also known as Eferin, is a 756 amino acid GTPase-regulating protein that contains 2 EF-hand domains and localizes to recycling endosomes. One of several members of a family of Rab-interacting proteins, Rab11-FIP3 forms a heterooligomeric complex with Rab11-FIP4 and, once in this complex, interacts with and regulates the function of Rab 11A, Rab 11B and Rab 25. Additionally, Rab11-FIP3 is thought to play a role in vesicle docking at the midbody during cytokinesis and may be crucial for maintaining the structural integrity of the endosomal recycling compartment.

## CHROMOSOMAL LOCATION

Genetic locus: RAB11FIP3 (human) mapping to 16p13.3; Rab11fip3 (mouse) mapping to 17 A3.3.

## SOURCE

Rab11-FIP3 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Rab11-FIP3 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-165328 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

Rab11-FIP3 (T-14) is recommended for detection of Rab11-FIP3 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); non cross-reactive with other Rab11-FIP family members.

Suitable for use as control antibody for Rab11-FIP3 siRNA (h): sc-93428, Rab11-FIP3 siRNA (m): sc-152662, Rab11-FIP3 shRNA Plasmid (h): sc-93428-SH, Rab11-FIP3 shRNA Plasmid (m): sc-152662-SH, Rab11-FIP3 shRNA (h) Lentiviral Particles: sc-93428-V and Rab11-FIP3 shRNA (m) Lentiviral Particles: sc-152662-V.

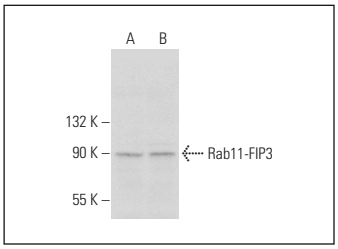
Molecular Weight of Rab11-FIP3: 82 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or HEK293 whole cell lysate: sc-45136.

## 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.

## DATA




Rab11-FIP3 (T-14): sc-165328. Western blot analysis of Rab11-FIP3 expression in HeLa (**A**) and HEK293 (**B**) whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **Rab11-FIP3 (6H6): sc-517043**, our highly recommended monoclonal alternative to Rab11-FIP3 (T-14).