

# Rab 12 (K-14): sc-85109

## 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 12 is a 244 amino acid protein that is anchored to the membrane of the golgi apparatus and belongs to the Rab family of GTPase proteins. Like other Rab proteins, Rab 12 is thought to play a role in protein transport and may participate in vesicular trafficking events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RAB12 (human) mapping to 18p11.22; Rab12 (mouse) mapping to 17 E1.1.

## SOURCE

Rab 12 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Rab 12 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-85109 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Rab 12 (K-14) is recommended for detection of Rab 12 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 Rab family members.

Suitable for use as control antibody for Rab 12 siRNA (h): sc-76311, Rab 12 siRNA (m): sc-152626, Rab 12 shRNA Plasmid (h): sc-76311-SH, Rab 12 shRNA Plasmid (m): sc-152626-SH, Rab 12 shRNA (h) Lentiviral Particles: sc-76311-V and Rab 12 shRNA (m) Lentiviral Particles: sc-152626-V.

Molecular Weight of Rab 12: 27 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) 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.

## PROTOCOLS

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


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Try **Rab 12 (H-11): sc-515613**, our highly recommended monoclonal alternative to Rab 12 (K-14).