

RABIF (G-12): sc-160703

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. RABIF (RAB interacting factor), also known as MSS4, RASGFR3 or RASGRF3, is a 123 amino acid ubiquitously expressed guanine-nucleotide-releasing protein that may participate in vesicular transport. RABIF stimulates GTP-GDP exchange in Sec4 and Rab and binds to a subset of genetically related Rab proteins.

CHROMOSOMAL LOCATION

Genetic locus: RABIF (human) mapping to 1q32.1; Rabif (mouse) mapping to 1 E4.

SOURCE

RABIF (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RABIF 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-160703 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

RABIF (G-12) is recommended for detection of RABIF 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).

RABIF (G-12) is also recommended for detection of RABIF in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for RABIF siRNA (h): sc-88145, RABIF siRNA (m): sc-152669, RABIF shRNA Plasmid (h): sc-88145-SH, RABIF shRNA Plasmid (m): sc-152669-SH, RABIF shRNA (h) Lentiviral Particles: sc-88145-V and RABIF shRNA (m) Lentiviral Particles: sc-152669-V.

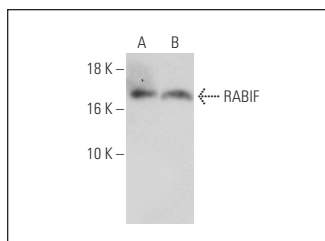
Molecular Weight of RABIF: 14 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, MIA PaCa-2 cell lysate: sc-2285 or HeLa whole cell lysate: sc-2200.

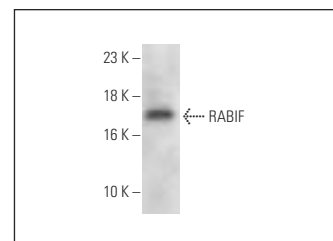
RECOMMENDED SECONDARY REAGENTS

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



RABIF (G-12): sc-160703. Western blot analysis of RABIF expression in MIA PaCa-2 (A) and HeLa (B) whole cell lysates.



RABIF (G-12): sc-160703. Western blot analysis of RABIF expression in Hep G2 whole cell lysate.

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.


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Try **RABIF (D-12): sc-390759**, our highly recommended monoclonal alternative to RABIF (G-12).