**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 vesicular trafficking events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Rab 12 (H-11) is a mouse monoclonal antibody raised against amino acids 126-244 mapping at the C-terminus of Rab 12 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Rab 12 (H-11) is available conjugated to agarose (sc-515613 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515613 HRP), 200 µg/ml, for WB, IHC (PE), and ELISA; to either phycoeryhrin (sc-515613 PE), fluorescein (sc-515613 FITC), Alexa Fluor® 488 (sc-515613 AF488), Alexa Fluor® 546 (sc-515613 AF546), Alexa Fluor® 594 (sc-515613 AF594) or Alexa Fluor® 647 (sc-515613 AF647), 200 µg/ml, for WB (RGB), IF, IHC (PE), and FC; and to either Alexa Fluor® 680 (sc-515613 AF680) or Alexa Fluor® 790 (sc-515613 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF, and FC.

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**APPLICATIONS**

Rab 12 (H-11) is recommended for detection of Rab 12 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

Positive Controls: HeLa whole cell lysate: sc-2200, MDA-MB-231 cell lysate: sc-2232 or Raji whole cell lysate: sc-364236.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

Rab 12 (H-11): sc-515613. Western blot analysis of Rab 12 expression in HeLa (A), MDA-MB-231 (B) and OVCAR-3 (C) whole cell lysates and mouse cerebellum tissue extract (D).

Rab 12 (H-11): sc-515613. Western blot analysis of Rab 12 expression in HeLa (A), MDA-MB-231 (B) and Raji (C) whole cell lysates and mouse cerebellum tissue extract (D). Detection reagent used: m-IgG BP-HRP: sc-516102.

**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 website at www.scbt.com for detailed protocols and support products.