**Rab 22A (G-7): sc-390726**

**BACKGROUND**

The Ras-related superfamily of guanine nucleotide binding proteins, which includes the R-Ras, Rap, Ra/Rac and Rho/Rab superfamilies, exhibit 30-60% homology with Ras p21. Accumulating data suggests an important role for Rab proteins, either in endocytosis or in biosynthetic protein transport. The transport of newly synthesized proteins from the endoplasmic reticulum to various stacks of the Golgi complex and to secretory vesicles involves at each stage the movement of carrier vesicles, a process that appears to involve Rab protein function. Rab 22A, also known as MGC16770, is a 194 amino acid protein that acts as a lipid anchor at endosomal and cellular membranes. Rab 22A binds early-endosomal antigen 1 (EEA1), and likely assists in trafficking between endosomes and the Golgi apparatus. The gene encoding Rab 22A maps to human chromosome 20q13.32.

**CHROMOSOMAL LOCATION**

Genetic locus: RAB22A (human) mapping to 20q13.32; Rab22a (mouse) mapping to 2 H4.

**SOURCE**

Rab 22A (G-7) is a mouse monoclonal antibody raised against amino acids 153-194 mapping at the C-terminus of Rab 22A of human origin.

**PRODUCT**

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

Rab 22A (G-7) is available conjugated to agarse (sc-390726 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390726 HRP), 200 μg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-390726 PE), fluorescein (sc-390726 FITC), Alexa Fluor® 488 (sc-390726 AF488), Alexa Fluor® 546 (sc-390726 AF546), Alexa Fluor® 594 (sc-390726 AF594) or Alexa Fluor® 647 (sc-390726 AF647), 200 μg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 680 (sc-390726 AF680) or Alexa Fluor® 790 (sc-390726 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Rab 22A (G-7) is recommended for detection of Rab 22A 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Rab 22A (G-7) is recommended for use as control antibody for Rab 22A siRNA (h): sc-76324, Rab 22A siRNA (m): sc-152629, Rab 22A shRNA Plasmid (h): sc-414787, Rab 22A shRNA Plasmid (m): sc-152619-SH, Rab 22A shRNA (h) Lentiviral Particles: sc-76324-V and Rab 22A shRNA (m) Lentiviral Particles: sc-152629-V.

Molecular Weight of Rab 22A: 21 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260, Jurkat whole cell lysate: sc-2204 or PC-12 cell lysate: sc-2250.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

![Western blot analysis of Rab 22A expression in Jurkat (A), AMJ2-C8 (B), PC-12 (C), WI-38 (D) and I-11.15 (E) whole cell lysates. Detection reagent used: m-IgG BP-HRP: sc-516208.](image)

**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.

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