**Rab 43 (D-12): sc-515460**

**BACKGROUND**

The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Raf/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 43, also known as ISY1, Rab 41 or Rab 11B, is a widely expressed member of the Rab family of proteins. Localizing to the Golgi complex, Rab 43 is required for retrograde trafficking to the trans-Golgi and for the biogenesis and maintenance of the Golgi structure. In addition, Rab 43 is a target of the GTPase activating protein (GAP) RN-tre.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RAB43 (human) mapping to 3q21.3; Rab43 (mouse) mapping to 6 D1.

**SOURCE**

Rab 43 (D-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 39-54 within an internal region of Rab 43 of human origin.

**PRODUCT**

Each vial contains 200 µg IgM kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-515460 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

Rab 43 (D-12) is recommended for detection of Rab 43 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 43 siRNA (h): sc-78238, Rab 43 siRNA (m): sc-152648, Rab 43 shRNA Plasmid (h): sc-78238 SH, Rab 43 shRNA Plasmid (m): sc-152648 SH, Rab 43 shRNA (h) Lentiviral Particles: sc-78238-V and Rab 43 shRNA (m) Lentiviral Particles: sc-152648-V.

Molecular Weight of Rab 43: 23 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, SW480 cell lysate: sc-2219 or human eye extract: sc-364223.

**RECOMMENDED SUPPORT REAGENTS**

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

2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG Ab-FITC: sc-516140 or m-IgG Ab-R-PE: sc-516141.
3) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG Ab-FITC: sc-516140 or m-IgG Ab-R-PE: sc-516141.

**DATA**

![Image 1](https://via.placeholder.com/150)

![Image 2](https://via.placeholder.com/150)

**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.