

## Recombinant Mouse Rab13 Protein, Myc/DDK-tagged

**Cat. No.** Rab13-5290M    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Purified recombinant protein of mouse full-length RAB13, member RAS oncogene family (Rab13), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

#### Species

Mouse

#### Source

HEK293

#### Description

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is involved in endocytic recycling and regulates the transport to the plasma membrane of transmembrane proteins like the tight junction protein OCLN/occludin. Thereby, it regulates the assembly and the activity of tight junctions. Moreover, it may also regulate tight junction assembly by activating the PKA signaling pathway and by reorganizing the actin cytoskeleton through the activation of the downstream effectors PRKACA and MICALL2 respectively. Through its role in tight junction assembly, may play a role in the establishment of Sertoli cell barrier. Plays also a role in angiogenesis through regulation of endothelial cells chemotaxis. Also involved in neurite outgrowth. Has also been proposed to play a role in post-Golgi membrane trafficking from the TGN to the recycling endosome. Finally, it has been involved in insulin-induced transport to the plasma membrane of the glucose transporter GLUT4 and therefore may play a role in glucose homeostasis.

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|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 22.8 kDa                                                                                                                                      |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                   |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.                                                                                                |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method                                                                                              |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                         |

## GENE INFORMATION

|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Rab13 RAB13, member RAS oncogene family [ Mus musculus (house mouse) ]                             |
| <b>Official Symbol</b> | Rab13                                                                                              |
| <b>Synonyms</b>        | RAB13; RAB13, member RAS oncogene family; ras-related protein Rab-13; 0610007N03Rik; B230212B15Rik |
| <b>Gene ID</b>         | 68328                                                                                              |
| <b>mRNA Refseq</b>     | NM_026677                                                                                          |
| <b>Protein Refseq</b>  | NP_080953                                                                                          |
| <b>UniProt ID</b>      | Q9DD03                                                                                             |

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