

Recombinant Mouse Rab10 Protein, Myc/DDK-tagged

Cat. No. Rab10-5282M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RAB10, member RAS oncogene family (Rab10), 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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane. Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane. In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma membrane and therefore may be important for innate immune response. Plays also a specific role in asymmetric protein transport to the plasma membrane. In neurons, it is involved in axonogenesis through regulation of vesicular membrane trafficking toward the axonal plasma membrane. In epithelial cells, it regulates transport from the Golgi to the basolateral membrane. May play a role in the basolateral recycling pathway and in phagosome maturation. May play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along microtubules and tubules fusion. Together with LRRK2, RAB8A, and RILPL1, it regulates ciliogenesis. When phosphorylated by LRRK2 on Thr-73, it binds RILPL1

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and inhibits ciliogenesis.

Molecular Mass	22.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rab10 RAB10, member RAS oncogene family [Mus musculus (house mouse)]
Official Symbol	Rab10
Synonyms	RAB10; RAB10, member RAS oncogene family; ras-related protein Rab-10; AW107754
Gene ID	19325
mRNA Refseq	NM_016676
Protein Refseq	NP_057885
UniProt ID	P61027

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