

Recombinant Mouse Rab1a Protein, Myc/DDK-tagged

Cat. No. Rab1a-5294M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RAB1A, member RAS oncogene family (Rab1a), 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. RAB1A regulates vesicular protein transport from the endoplasmic reticulum (ER) to the Golgi compartment and on to the cell surface, and plays a role in IL-8 and growth hormone secretion. Regulates the level of CASR present at the cell membrane. Plays a role in cell adhesion and cell migration, via its role in protein trafficking. Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria. Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport.
Molecular Mass	22.7 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

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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 Rab1a RAB1A, member RAS oncogene family [Mus musculus (house mouse)]

Official Symbol Rab1a

Synonyms Rab1a; RAB1A, member RAS oncogene family; Ra; Gtb; Rab; Ypt; Gtbp; Rab1; Ypt1; Rab-1; mKIAA3012; ras-related protein Rab-1A; RAB1, member RAS oncogene family; YPT1-related protein; ras-related YPT1 protein

Gene ID 19324

mRNA Refseq NM_008996

Protein Refseq NP_033022

UniProt ID P62821

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