

Recombinant Mouse Rab5a Protein, Myc/DDK-tagged

Cat. No. Rab5a-5326M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RAB5A, member RAS oncogene family (Rab5a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Active GTP-bound form is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes. Contributes to the regulation of filopodia extension. Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan. Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3.
Molecular Mass	23.6 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.

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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	Rab5a RAB5A, member RAS oncogene family [Mus musculus (house mouse)]
Official Symbol	Rab5a
Synonyms	RAB5A; RAB5A, member RAS oncogene family; ras-related protein Rab-5A; AI663973; AU021172; 2410015H04Rik
Gene ID	271457
mRNA Refseq	NM_025887
Protein Refseq	NP_080163
UniProt ID	Q9CQD1