

Recombinant Mouse Rhob Protein, MYC/DDK-tagged

Cat. No. Rhob-642M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse ras homolog family member B (Rhub), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells.
Molecular Mass	22.1 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	Rhob ras homolog family member B [<i>Mus musculus</i> (house mouse)]
Official Symbol	Rhob
Synonyms	Rhob; ras homolog family member B; Arh6; Arhb; AA017882; rho-related GTP-binding protein RhoB; aplysia ras-related homolog B; ras homolog B; ras homolog gene family, member AB; ras homolog gene family, member B
Gene ID	11852
mRNA Refseq	NM_007483
Protein Refseq	NP_031509
UniProt ID	P62746

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