

Recombinant Mouse Racgap1 Protein, Myc/DDK-tagged

Cat. No. Racgap1-5346M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Rac GTPase-activating protein 1 (cDNA clone MGC:11396 IMAGE:3602242), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-mediated signaling required for the myosin contractile ring formation during the cell cycle cytokinesis. Required for proper attachment of the midbody to the cell membrane during cytokinesis. Plays key roles in controlling cell growth and differentiation of hematopoietic cells through mechanisms other than regulating Rac GTPase activity. Also involved in the regulation of growth-related processes in adipocytes and myoblasts. May be involved in regulating spermatogenesis and in the RACGAP1 pathway in neuronal proliferation. Shows strong GAP (GTPase activation) activity towards CDC42 and RAC1 and less towards RHOA. Essential for the early stages of embryogenesis. May play a role in regulating cortical activity through RHOA during cytokinesis. May participate in the regulation of sulfate transport in male germ cells.
Molecular Mass	70.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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	Racgap1 Rac GTPase-activating protein 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Racgap1
Synonyms	Racgap1; Rac GTPase-activating protein 1; GTP; Band; gtl1; MgcRa; gtl11; Band25; GTPase; AI227039; AI327394; MgcRacGAP; mKIAA1478; rac GTPase-activating protein 1; male germ cell RacGap
Gene ID	26934
mRNA Refseq	NM_012025
Protein Refseq	NP_036155
UniProt ID	Q9WVM1

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