

Active Recombinant Rat RAB3A, Member RAS Oncogene Family, GST-tagged

Cat. No. Rab3a-1112R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Rat
Source	E.coli
Description	Rab3A is a small GTPase that belongs to the Ras superfamily. Rab proteins play an important role in various aspects of membrane traffic, including cargo selection, vesicle budding, vesicle motility, tethering, docking, and fusion. Rab3A is involved in the process of Ca ²⁺ dependent neurotransmitter release. GTP-Rab3A binds effector molecules, Rabphilin-3 and Rim, localized at synaptic vesicles and the active zone, respectively. These complexes facilitate translocation and docking of the synaptic vesicles to the active zone. The GST-Tag facilitates the protein's application in typical GST pull-down assays.
Usage	For in vitro use only.
Form	Liquid. Supplied in 50 mM Tris-HCl pH 8.0, 100 mM NaCl, 10 mM MgCl ₂ , 10 μM GDP and 2 mM mercaptoethanol.
Activity	100 pmol of protein can bind > 80 pmol of GDP.
Purity	≥ 90% by SDS-PAGE.

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Storage Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name Rab3a RAB3A, member RAS oncogene family [*Rattus norvegicus*]

Synonyms Rab3a; RAB3A, member RAS oncogene family; RAB3; Ras-related small GTP binding protein 3A

Gene ID 25531

mRNA Refseq NM_013018

Protein Refseq NP_037150

UniProt ID P63012

Chromosome Location 16p14

Function GTP binding; GTPase activity; nucleotide binding; protein binding

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