

Active Recombinant Rat RAB3A Protein, GST/His-tagged

Cat. No. RAB3A-709R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat RAB3A protein (NP_037150) was expressed in E. coli with GST-His tag.
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.
Form	50 mM Tris-HCl pH 8.0, 100 mM NaCl, 10 mM MgCl ₂ , 10 μM GDP and 2 mM mercaptoethanol
Bio-activity	100 pmol of protein can bind > 80 pmol of GDP.
Purity	> 90 % (SDS-PAGE)
Storage	Store at -80 centigrade, avoid freeze/thaw cycles.

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GENE INFORMATION

Gene Name	Rab3a RAB3A, member RAS oncogene family [Rattus norvegicus]
Official Symbol	RAB3A
Synonyms	RAB3A
Gene ID	5864
mRNA Refseq	NM_002866.4
Protein Refseq	NP_002857.1
MIM	179490
UniProt ID	P20336

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