

# Active Recombinant Rat Rab27a Protein

**Cat. No.** Rab27a-714R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Rab27a protein (P23640) was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Rab27 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. The monomeric GTPase Rab27 subfamily regulates the exocytosis of these cell-specific store organelles. Rab27 acts through organelle-specific effector proteins, such as granuphilin in pancreatic beta cells and melanophilin in melanocytes. The Rab27 and effector complex then interacts with proteins that are essential for membrane transport and fusion. |
| <b>Form</b>             | 50 mM Tris-HCl pH 8.0, 100 mM NaCl, 10 mM MgCl <sub>2</sub> , 10 μM GDP and 2 mM mercaptoethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | 100 pmol of protein can bind > 80 pmol of GDP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 90 % (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Store at -80 centigrade, avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## GENE INFORMATION

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|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Gene Name       | Rab27a RAB27A, member RAS oncogene family [ Rattus norvegicus ] |
| Official Symbol | Rab27a                                                          |
| Synonyms        | ram                                                             |
| Gene ID         | 50645                                                           |
| mRNA Refseq     | NM_017317.2                                                     |
| Protein Refseq  | NP_059013.1                                                     |
| UniProt ID      | P23640                                                          |

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