

# Recombinant Human RAB21, His-tagged

**Cat. No.** RAB21-3473H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human RAB21 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                            |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>              | Ras-related protein Rab-21, also known as RAB21, is a member of the Ras superfamily of small GTP-binding proteins. Rab21 is integrin-associated protein and positive regulators of integrin traffic. This protein associate with the cytoplasmic domains of alpha-integrin chains and their expression influences the endo/exocytic traffic of integrins. This function of Rab21 is dependent on its GTP/GDP cycle and proper membrane targeting. |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 200mM NaCl, 1mM PMSF                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b>         | 27.1kDa (242aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                   | > 90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>            | 0.5mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMYSF KVVLLGEGCV<br>GKTSVLRYC ENKFNDKHIT TLQASFLTCK LNIGGKRVNL AIWDTAGQER                                                                                                                                                                                                                                                                                                                                   |

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FHALGPIYYR DSNAILVYD ITDEDSFQKV KNWVKELRKM LGNEICLCIV  
GNKIDLEKER HVSIQEAESY AESVGAKHYH TSAKQNKIE ELFLDLCKRM  
IETAQVDERA KGNSSQPGT ARRGVQIIDD EPQAQTSGGG CC

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

RAB21 RAB21, member RAS oncogene family [ Homo sapiens ]

**Synonyms**

ras-related protein Rab-21; RAB21; RAB21, member RAS oncogene family;  
KIAA0118; RAB21

**Gene ID**

23011

**mRNA Refseq**

NM\_014999

**Protein Refseq**

NP\_055814

**MIM**

612398

**UniProt ID**

Q9UL25

**Chromosome  
Location**

12q21.1

**Function**

GDP binding; GTP binding; GTPase activity; nucleotide binding; protein binding

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