

# Recombinant human RAB2A protein

Catalog Number: ATGP1098

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-212aa

### UniProt No.

P61019

### NCBI Accession No.

NP\_002856.1

### Alternative Names

Ras-related protein Rab-2A, RAB2, RAB2A member RAS oncogene family

## PRODUCT SPECIFICATION

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### Molecular Weight

26.1 kDa (236aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 100mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

RAB2A (Ras-related protein Rab-2A) belongs to the small GTPase superfamily. Members of the RAB protein family are nontransforming monomeric GTP-binding proteins of the Ras superfamily that contain 4 highly conserved regions involved in GTP binding and hydrolysis. RAB proteins are also an integral part of endocytic pathways. RAB2A and RAB2B are required for protein transport from the ER to the Golgi, RAB2A is lipid-anchored to the ER-Golgi intermediate compartment membrane while RAB2B is lipid anchored to the cytoplasmic side of the cell membrane. RAB2A has been shown to interact with GOLGA2. Recombinant human RAB2A protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGSH>MAYAYL FKYIIIGDTG VGKSCLLQF TDKRFQPVHD LTIGVEFGAR MITIDGKQIK  
LQIWDTAGQE SFRSITRSYY RGAAGALLVY DITRRDTFNH LTTWLEDARQ HSNSNMVIML IGNKSDLESR REVKKEEGEA  
FAREHGLIFM ETSAKTASN EAFINTAKE IYEKIQEGVF DINNEANGIK IGPQHAATNA THAGNQQGQQ AGGGCC

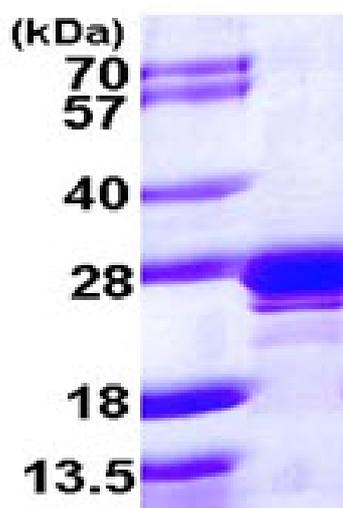
### General References

Opdam, F.J., et al. (2000) Eur. J. Cell Biol. 79: 308-316.

Tisdale E.J. (2003) J. Biol. Chem. 278:52524-52530

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.