

# Recombinant human RAB13 protein

Catalog Number: ATGP1126

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-200aa

### UniProt No.

P51153

### NCBI Accession No.

NP\_002861.1

### Alternative Names

Ras-related protein Rab-13, GIG4, RAB13 member RAS oncogene family, Cell growth-inhibiting gene 4 protein

## PRODUCT SPECIFICATION

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### Molecular Weight

24.7 kDa (220aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 200mM NaCl, 1mM EDTA

### Purity

> 85% 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

RAB13 (Ras-related protein Rab-13) 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. The GTPase Rab13 regulates the assembly of functional epithelial tight junctions (TJs). It is expressed at all stages of preimplantation development. Recombinant human RAB13 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAKAYDHLFK LLLIGDSGVG KTCLIRFAE DNFNNTYIST IGIDFKIRTV DIEGKKIKLQ  
VWDTAGQERF KTITTAYYRG AMGIILVYDI TDEKSFENIQ NWMKSIKENA SAGVERLLLG NKCDMEAKRK VQKEQADKLA  
REHGIRFFET SAKSSMNVDE AFSSLARDIL LKSGGRRSGN GNKPPSTD LK TCDKKNTNKC

## General References

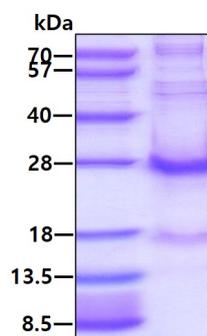
Sheth B., et al. (2000) Mech Dev. 97(1-2):93-104.

Kohler K., et al. (2004) J Cell Biol. 165(2):175-80.

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.