

# Recombinant human RAP2B protein

Catalog Number: ATGP1966

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-183aa

### UniProt No.

P61225

### NCBI Accession No.

NP\_002877

### Alternative Names

Ras-related protein Rap-2b, RAP2B, Member of RAS oncogene family, Small GTP binding protein, Ras family small GTP binding protein RAP2B

## PRODUCT SPECIFICATION

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### Molecular Weight

22.9 kDa (206aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 95% 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

Ras-related protein Rap-2b, also known as RAP2B, belongs to a family of RAS-related genes. Unlike normal Ras proteins that have a nontransforming glutamine residue at aa 61, Rap2B has a threonine residue in that position. This change makes the intrinsic GTPase activity for Rap2B lower, thereby allowing it to exist in the activated state for a longer period of time than normal Ras proteins. RAP2B is a platelet protein that is activated by thrombin and involved in platelet activation. RAP2B may be a novel candidate oncogene that plays important

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roles in carcinogenesis through activation of NF-kappaB pathway. Recombinant human RAP2B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

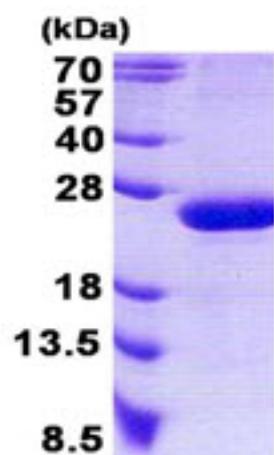
MGSSHHHHHH SGLVPRGSH MGSREYKVV VLGSGGVGKS ALTVQFVTGS FIEKYDPTIE DFYRKEIEVD SSPSVLEILD  
TAGTEQFASM RDLYIKNGQG FILVYSLVNQ QSFQDIKPMR DQIIRVKRYE RVPMILVGNK VDLEGEREVS YGEGKALAE  
WSCPFMETSA KNKASVDEL AEIVRQMNYA AQPNGDEGCC SACVIL

## General References

Culine S., et al. (1989) Int J Cancer. 44:990-994  
Beranger F., et al. (1991) Oncogene. 6: 1835-1842.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)