Recombinant human RAP2B protein

Catalog Number: ATGP1966

PRODUCT INFORMATION

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

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

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

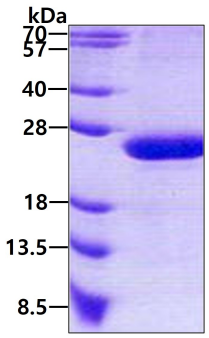
<MGSSHHHHHH SSGLVPRGSH MGS>MREYKVV VLGSGGVGKS ALTVQFVTGS FIEKYDPTIE DFYRKEIEVD SSPSVLEILD TAGTEQFASM RDLYIKNGQG FILVYSLVNQ QSFQDIKPMR DQIIRVKRYE RVPMILVGNK VDLEGEREVS YGEGKALAEE WSCPFMETSA KNKASVDELF AEIVRQMNYA AQPNGDEGCC SACVIL

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.