Recombinant human RAB32 protein

Catalog Number: ATGP1246

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-225aa

UniProt No.
Q13637

NCBI Accession No.
NP_006825

Alternative Names
Ras-related protein Rab-32, RAB32 member RAS oncogene family

PRODUCT SPECIFICATION

Molecular Weight
27.5 kDa (249aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 50% glycerol, 200mM NaCl, 2mM EDTA

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

Description
RAB32 belongs to the small GTPase superfamily. RAB32 modulates ER calcium handling and disrupts the specific enrichment of calnexin on the MAM (mitochondria-associated membrane), while not affecting the ER distribution of protein-disulfide isomerase and mitofusin-2. Also, RAB32 determines the targeting of PKA (cAMP-dependent protein kinase) to mitochondrial and ER membranes and through its overexpression or inactivation increases the phosphorylation of Bad and of Drp1. Through a combination of its functions as a PKA-anchoring protein and a regulator of MAM properties, the activity and expression level of RAB32 determine the speed of apoptosis onset.

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Recombinant human RAB32 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

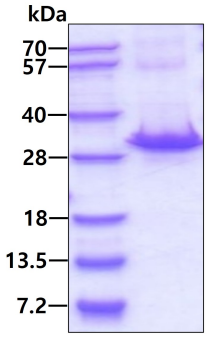
<MGSSHHHHHH SSGLVPRGSH MGSH>MAGGGA GDPGLGAAAA PAPETREHLF KVLVIGELGV GKTSIIKRYV HQLFSQHYRA TIGVDFALKV LNWDSRTLVR LQLWDIAGQE RFGNMTRVYY KEAVGAFVVF DISRSSTFEA VLKWKSDLDS KVHLPNGSPI PAVLLANKCD QNKDSSQSPS QVDQFCKEHG FAGWFETSAK DNINIEEAAR FLVEKILVNH QSFPNEENDV DKIKLDQETL RAENKSQCC

General References

Bui M, et al. (2010) J Biol Chem. 285(41):31590-602.
Alto NM, et al. (2002) J Cell Biol.158(4):659-68.

DATA

SDS-PAGE



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