

AR50071PU-S

Human RAB32 (1-225, His-tag) - Purified

Alternate names:

Rab-32, Ras-related protein Rab-32

Quantity:

0.1 mg

Concentration:

0.5mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q13637](#)

NCBI:

[NP_006825](#)

GenelD:

[10981](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 50% glycerol, 200mM NaCl, 2mM EDTA

Description:

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSHMAGGGA GDPGLGAAAA PAPETREHLF KVLVIGELGV
GKTSIIKRYV HQLFSQHYRA TIGVDFALKV LNWDSTLVR LQLWDIAGQE RFGNMTRVYY
KEAVGAFVVF DISRSSTFEA VLKWKSDLDS KVHLPNGSPI PAVLLANKCD QNKDSSQSPS
QVDQFCKEHG FAGWFETSAK DNINIEEAAR FLVEKILVNH QSPNEENDV DKIKLDQETL
RAENKSQCC

Molecular weight: 27.6 kDa (249aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:

