Recombinant human RAB27A protein

Catalog Number: ATGP0556

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-221aa

UniProt No.
P51159

NCBI Accession No.
NP_899059

Alternative Names
Ras-related protein Rab-27A, GS2, RAM, RAB27, Ras-related protein Rab-27A GTP-binding protein Ram, HsT18676.MGC117246, Rab-27, RAB27A, member RAS oncogene family, Ras-related protein Rab27A.

PRODUCT SPECIFICATION

Molecular Weight
27 kDa (241aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

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

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
Ras-related protein Rab-27A, also known as RAB27A, belongs to the small GTPase superfamily, Rab family. The protein is membrane-bound and may be involved in protein transport and small GTPase mediated signal transduction. Also, RAB27A regulates the cytotoxic granule exocytosis and affect T-lymphocyte and macrophage-activation. It is widely expressed with significant expression in pancreatic islets and pituitary tissue, and low expression in brain. Defects in RAB27A cause Griscelli syndrome type 2 (GS2). Recombinant human RAB27A,

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

Amino acid Sequence

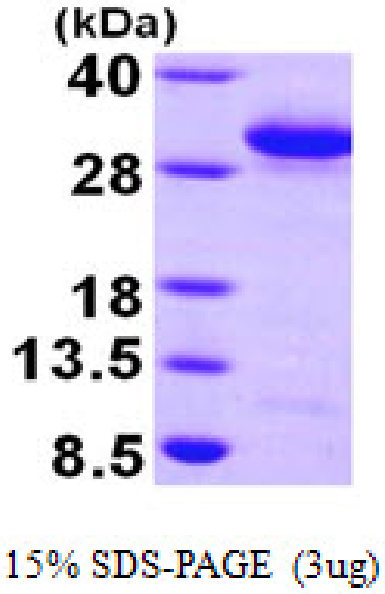
MGSSHHHHHH SSGLVPRGSH MSDGDYDYLI KFLALGDSGV GKTSVLYQYT DGKFNSKFIT TVGIDFREKR VVYRASGPDG ATGRGQRIHL QLWDTAGQER FRSLTTAFFR DAMGFLLLFD LTNEQSFLNV RNWISQLQMH AYCENPDIVL CGNKSDLEDQ RVVKEEEAIA LAEKYGIPYF ETSAANGTNI SQAIEMLLDL IMKRMERCVD KSWIPEGVVR SNGHASTDQL SEEKEKGACG C

General References

Kuroda TS., et al. (2002) J Biol Chem. 277(11):9212-8.
Barral DC., et al. (2002) J Clin Invest. 110:61-5.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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