PRODUCT INFORMATION

Expression system E.coli

Domain 1-181aa

UniProt No. P61224

NCBI Accession No. NP_056461

Alternative Names

Ras-related protein Rap-1b, DKFZp586H0723, K-REV, RAL1B, RAP1B member of RAS oncogene family, GTPbinding protein smg p21B

PRODUCT SPECIFICATION

Molecular Weight

22.6 kDa (201aa) confirmed by MALDI-TOF

Concentration 0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM MES buffer (pH 5.0) containing 0.2M NaCl, 5mM 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

RAP1B belongs to a superfamily of RAS-like small GTP-binding proteins involved in cell signaling. It possesses intrinsic GTPase activity and is ubiquitously expressed in mammalian tissues. The putative effector domain of Ras proteins, whose integrity is required for cell transformation as well as interaction with the putative effector protein GAP, is conserved in both Rap 1 proteins. Recombinant human RAP1B protein, fused to His-tag at Nterminus, was expressed in E. coli and purified by using conventional chromatography techniques.



Amino acid Sequence

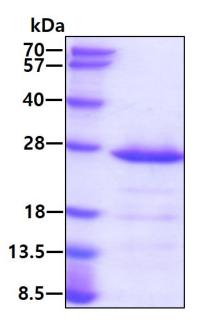
<MGSSHHHHHH SSGLVPRGSH> MREYKLVVLG SGGVGKSALT VQFVQGIFVE KYDPTIEDSY RKQVEVDAQQ CMLEILDTAG TEQFTAMRDL YMKNGQGFAL VYSITAQSTF NDLQDLREQI LRVKDTDDVP MILVGNKCDL EDERVVGKEQ GQNLARQWNN CAFLESSAKS KINVNEIFYD LVRQINRKTP VPGKARKKSS C

General References

Awasthi A., et al. (2010) J Exp Med. 207(9):1923-38. Schoenwaelder SM., et al. (2010) J Biol Chem. 285(4):2886-96.

DATA

SDS-PAGE



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