

RAP2B, 1-183aa, Human, His tag, E.coli

Cat.NO.: TP03677

3th Edition

Synonyms:Ras-related protein Rap-2b, RAP2B, member of RAS oncogene family

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 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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Molecular Weight:22.9kDa (206aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMREYKVVVLGSGGVGKSALTVQFVTGSFIEKYDPTIEDFYRKEIEVDSSPSV
LEILDTAGTEQFASMRDLYIKNGQGFIYSLVNQQSFQDIKPMRDQIIRVKRYERVPMILVGNKVDLEGEREVSYGE
GKALAEWSCPFMETSAKNKASVDELFAEIVRQMNYAAQPNGDEGCCSACVIL

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.