

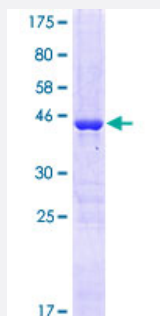
Full-Length

RAP1A (Human) Recombinant Protein (P01)

Catalog # H00005906-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human RAP1A full-length ORF (AAH14086.1, 1 a.a. - 184 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MREYKLVVLGSGGVGKSALTQFVQGIFVEKYDPTIEDSYRKQVEVDCQQCMLEILD TAGTEQFT
AMRDLYMKNGQG FALVYSIT AQSTFNDLQDLREQILRVKDTEDVPMILVG NKCDLEDERVVGKEQ
GQNLARQWCNCAFLESSAKSKINVNEIFYDLVRQINRKTPVEKKKPKKKSCLLL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

45.98

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RAP1A

Entrez GeneID [5906](#)

GeneBank Accession# [BC014086](#)

Protein Accession# [AAH14086.1](#)

Gene Name RAP1A

Gene Alias KREV-1, KREV1, RAP1, SMGP21

Gene Description RAP1A, member of RAS oncogene family

Omim ID [179520](#)

Gene Ontology [Hyperlink](#)

Gene Summary The product of this gene belongs to the family of RAS-related proteins. These proteins share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. The most striking difference between RAP proteins and RAS proteins resides in their 61st amino acid: glutamine in RAS is replaced by threonine in RAP proteins. The product of this gene counteracts the mitogenic function of RAS because it can interact with RAS GAPs and RAF in a competitive manner. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000013740|OTTHUMP00000013741|OTTHUMP00000059089|RAS-related protein RAP1A|Ras-related protein Krev-1|Ras-related protein Rap-1A

Publication Reference

- [Epac Activates the Small G Proteins Rap1 and Rab3A to Achieve Exocytosis.](#)

Branham MT, Bustos MA, De Blas GA, Rehmann H, Zarelli VE, Trevino CL, Darszon A, Mayorga LS, Tomes CN.

The Journal of Biological Chemistry 2009 Sep; 284(37):24825.

Application: Treated, Recombinant protein

- [Rap1b Regulates B Cell Development, Homing, and T Cell-Dependent Humoral Immunity.](#)

Chu H, Awasthi A, White GC 2nd, Chrzanowska-Wodnicka M, Malarkannan S.

Journal of Immunology 2008 Sep; 181(5):3373.

Pathway

- [Chemokine signaling pathway](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Renal cell carcinoma](#)

Disease

- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Osteoporosis](#)
- [Thyroid Neoplasms](#)