

RAP1A Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12949b**Specification**

RAP1A Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P62834](#)**RAP1A Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5906**Other Names**

Ras-related protein Rap-1A, C21KG, G-22K, GTP-binding protein smg p21A, Ras-related protein Krev-1, RAP1A, KREV1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAP1A Antibody (C-term) Blocking peptide - Protein Information**Name** RAP1A**Synonyms** KREV1**Function**

Induces morphological reversion of a cell line transformed by a Ras oncogene. Counteracts the mitogenic function of Ras, at least partly because it can interact with Ras GAPs and RAF in a competitive manner. Together with ITGB1BP1, regulates KRIT1 localization to microtubules and membranes. Plays a role in nerve growth factor (NGF)- induced neurite outgrowth. Plays a role in the regulation of embryonic blood vessel formation. Involved in the establishment of basal endothelial barrier function. May be involved in the regulation of the vascular endothelial growth factor receptor KDR expression at endothelial cell-cell junctions.

Cellular Location

Cell membrane; Lipid-anchor. Cytoplasm. Cytoplasm, perinuclear region. Cell junction. Early endosome. Note=Recruited from early endosome to late endosome compartment after nerve growth factor (NGF) stimulation Localized with RAPGEF2 at cell-cell junctions (By similarity) Colocalized with RAPGEF2 in the perinuclear region.

RAP1A Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RAP1A Antibody (C-term) Blocking peptide - Images

RAP1A Antibody (C-term) Blocking peptide - Background

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.

RAP1A Antibody (C-term) Blocking peptide - References

Liu, C., et al. Mol. Cell. Biol. 30(16):3956-3969(2010) Kelly, P., et al. J. Biol. Chem. 285(21):15777-15785(2010) Ahmed, S.M., et al. J. Biol. Chem. 285(9):6538-6551(2010) Hsu, Y.H., et al. PLoS Genet. 6 (6), E1000977 (2010) : Sarthy, J., et al. EMBO J. 28(21):3390-3399(2009)