

RAP2A Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP21767a**Specification**

RAP2A Blocking Peptide (N-Term) - Product InformationPrimary Accession [P10114](#)**RAP2A Blocking Peptide (N-Term) - Additional Information****Gene ID** 5911**Other Names**

Ras-related protein Rap-2a, RbBP-30, RAP2A

Target/Specificity

The synthetic peptide sequence is selected from aa 26-38 of HUMAN RAP2A

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.

RAP2A Blocking Peptide (N-Term) - Protein Information**Name** RAP2A ([HGNC:9861](#))**Function**

Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form (PubMed:14966141, PubMed:15342639, PubMed:16246175, PubMed:16540189, PubMed:18930710, PubMed:20159449, PubMed:35293963). In its active form interacts with and regulates several effectors including MAP4K4, MINK1 and TNK1 (PubMed:14966141, PubMed:15342639, PubMed:18930710, PubMed:20159449). Part of a signaling complex composed of NEDD4, RAP2A and TNK1 which regulates neuronal dendrite extension and arborization during development

(PubMed:20159449). More generally, it is part of several signaling cascades and regulates cytoskeletal rearrangements, cell migration, cell adhesion and cell spreading (PubMed:14966141, PubMed:15342639, PubMed:16246175, PubMed:16540189, PubMed:18930710, PubMed:20159449, PubMed:35293963).

Cellular Location

Midbody. Cell projection, lamellipodium membrane. Golgi apparatus. Recycling endosome membrane; Lipid-anchor; Cytoplasmic side. Lysosome. Note=Localized to the Golgi (PubMed:35293963, PubMed:7962206). May also localize to the gelatinase- containing granules of neutrophils (PubMed:8391995). Colocalized with RASGEF1B to midbody at telophase (PubMed:23894443). Localized predominantly to the plasma membrane, where it is enriched at lamellipodia ruffles (PubMed:35293963). Cycles between the lamellipodia plasma membrane and endosomes when ubiquitinated by the ECS(RAB40B) complex (PubMed:35293963). Without the ubiquitin signal, sorted to lysosomes for degradation (PubMed:35293963)

RAP2A Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

RAP2A Blocking Peptide (N-Term) - Images

RAP2A Blocking Peptide (N-Term) - Background

Small GTP-binding protein which cycles between a GDP- bound inactive and a GTP-bound active form. In its active form interacts with and regulates several effectors including MAP4K4, MINK1 and TNIK. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it is part of several signaling cascades and may regulate cytoskeletal rearrangements, cell migration, cell adhesion and cell spreading.

RAP2A Blocking Peptide (N-Term) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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