

KIAA0174 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9721a**Specification**

KIAA0174 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P53990](#)**KIAA0174 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 9798

Other Names

IST1 homolog, hIST1, Putative MAPK-activating protein PM28, IST1, KIAA0174

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.

KIAA0174 Antibody (N-term) Blocking Peptide - Protein Information

Name IST1

Synonyms KIAA0174

Function

ESCRT-III-like protein involved in cytokinesis, nuclear envelope reassembly and endosomal tubulation (PubMed: [19129479](http://www.uniprot.org/citations/19129479)), PubMed: [26040712](http://www.uniprot.org/citations/26040712), PubMed: [28242692](http://www.uniprot.org/citations/28242692)). Is required for efficient abscission during cytokinesis (PubMed: [19129479](http://www.uniprot.org/citations/19129479)). Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells (PubMed: [19129480](http://www.uniprot.org/citations/19129480), PubMed: [19129479](http://www.uniprot.org/citations/19129479)). During late anaphase, involved in nuclear envelope reassembly and mitotic spindle disassembly together with the ESCRT-III complex: IST1 acts by mediating the recruitment of SPAST to the nuclear membrane, leading to microtubule severing (PubMed: [26040712](http://www.uniprot.org/citations/26040712)). Recruited to the reforming nuclear envelope (NE) during anaphase by LEMD2 (PubMed: [28242692](http://www.uniprot.org/citations/28242692)). Regulates early endosomal tubulation together with the ESCRT-III complex by mediating the recruitment of SPAST (PubMed: [28242692](http://www.uniprot.org/citations/28242692)).

href="http://www.uniprot.org/citations/23897888" target="_blank">23897888).

Cellular Location

Cytoplasmic vesicle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Midbody. Nucleus envelope Note=Localizes to centrosome and midbody of dividing cells (PubMed:19129480, PubMed:19129479, PubMed:20719964). Colocalized with SPART to the ends of Flemming bodies during cytokinesis (PubMed:20719964). Localizes to the reforming nuclear envelope on chromatin disks during late anaphase.

KIAA0174 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KIAA0174 Antibody (N-term) Blocking Peptide - Images**KIAA0174 Antibody (N-term) Blocking Peptide - Background**

KIAA0174 is proposed to be involved in specific functions of the ESCRT machinery. It is required for efficient abscission during cytokinesis, but not for HIV-1 budding. The involvement in the MVB pathway is not established. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells.

KIAA0174 Antibody (N-term) Blocking Peptide - References

Bajorek, M., et al. Nat. Struct. Mol. Biol. 16(7):754-762(2009) Agromayor, M., et al. Mol. Biol. Cell 20(5):1374-1387(2009) Bajorek, M., et al. Mol. Biol. Cell 20(5):1360-1373(2009)