

Anti-IST1 Antibody
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17730**Specification**

Anti-IST1 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P53990
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	39751

Anti-IST1 Antibody - Additional Information**Gene ID** 9798**Alias Symbol** **IST1****Other Names**

IST1, CRS1, HIST1, IST1 homolog, KIAA0174, OLC1, Increased sodium tolerance-1, SCS, Overexpressed in lung cancer 1, TWACS3

Target/Specificity

Anti-hIST1 recognizes hIST1 expression in H520 whole cell lysate.

Reconstitution & Storage

Affinity purified

Precautions

Anti-IST1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-IST1 Antibody - 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). Recruited to the reforming nuclear envelope (NE) during anaphase by LEMD2 (PubMed:28242692). Regulates early endosomal tubulation together with the ESCRT-III complex by mediating the recruitment of SPAST (PubMed: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.

Anti-IST1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IST1 Antibody - Images