10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IST1 Antibody

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17730

Product Information

Application	WB, IHC-P, E
Primary Accession	P53990
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	39751
Concentration (mg/ml)	1 mg/ml

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.

Protein Information

Name	IST1
Synonyms	KIAA0174
Function	ESCRT-III-like protein involved in cytokinesis, nuclear envelope reassembly and endosomal tubulation (PubMed:19129479, PubMed:26040712, PubMed:28242692). Is required for efficient abscission during cytokinesis (PubMed:19129479). Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells (PubMed:19129479, PubMed:19129480). 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:19129479, PubMed:19129480, 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.