IST1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IST1, Polyclonal Antibody
Full Product Name	IST1 Antibody, FITC conjugated
Product Gene Name	anti-IST1 antibody
Product Synonym Names	IST1 homolog; hIST1; Putative MAPK-activating protein PM28; IST1; KIAA0174
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: IST1 (MBS7107939) FITC Conjugated Antibody: IST1 (MBS7107941)
Molecular Weight	23,089 Da
OMIM	AB097052 mRNA
3D Structure	ModBase 3D Structure for P53990
Immunogen	Recombinant Human IST1 homolog protein (172-284AA)
Conjugation	FITC
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-IST1 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IST1 antibody	ELISA (EIA)
Related Product Information for anti-IST1 antibody	ESCRT-III-like protein involved in specific functions of the ESCRT machinery. 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 (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). Regulates early endosomal tubulation together with the ESCRT-III complex by mediating the recruitment of SPAST (PubMed:23897888).
Other Notes	Small volumes of anti-IST1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IST1 purchase	MBS7107941 is an antibody targeting IST1. Also known as IST1 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IST1. It may not necessarily be applicable to this product.

NCBI GI #	401709930
NCBI GeneID	9798
NCBI Accession #	NP_001257904.1
UniProt Primary Accession #	P53990
UniProt Secondary Accession #	Q3SYM4; Q9BQ81; Q9BWN2; A8KAH5; J3QLU7
UniProt Related Accession #	P53990
GenBank Nucleotide #	NM_001270975.1
NCBI Official Full Name	IST1 homolog isoform a
NCBI Official Synonym Full Names	IST1, ESCRT-III associated factor
NCBI Official Symbol	IST1
NCBI Official Synonym Symbols	OLC1
UniProt Protein Name	IST1 homolog
UniProt Synonym Protein Names	Putative MAPK-activating protein PM28
Protein Family	IST1
UniProt Gene Name	IST1
UniProt Synonym Gene Names	KIAA0174; hIST1
NCBI Protein Information	IST1 homolog
NCBI Summary for IST1	This gene encodes a protein with MIT-interacting motifs that interacts with components of endosomal sorting complexes required for transport (ESCRT). ESCRT functions in vesicle budding, such as that which occurs during membrane abscission in cytokinesis. There is a pseudogene for this gene on chromosome 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]
Research Articles on IST1	**1.** The expression of OLC1 in the tumor tissues of lung adenocarcinoma is higher than that in squamous cell carcinoma.
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