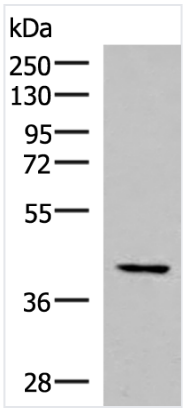
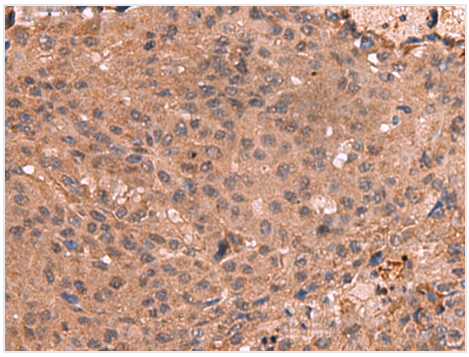
# IST1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | IST1, Polyclonal Antibody |
| **Full Product Name** | IST1 Polyclonal Antibody |
| **Product Gene Name** | anti-IST1 antibody |
| **Product Synonym Names** | hIST1; Increased sodium tolerance 1; Increased sodium tolerance 1 homolog; IST1 homolog; IST1; KIAA0174; MAPK activating protein PM28; MGC117220; MGC128433; Putative MAPK-activating protein PM28 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | PBS with 0.05% NaN3 and 40% Glycerol, pH7.4 |
| **Purity/Purification** | Antigen Affinity Purification |
| **Concentration** | 1.14mg/mL (lot specific) |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 40 kDa |
| **3D Structure** | ModBase 3D Structure for P53990 |
| **Immunogen** | Synthetic peptide of human IST1 |
| **Conjugation** | Unconjugated |
| **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** | Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA) |
| **Application Notes for anti-IST1 antibody** | WB: 1:1000-1:5000<br>IHC: 1:40-1:200<br>ELISA: 1:5000-1:10000 |
| **Related Product Information for anti-IST1 antibody** | 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. |
| **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** | MBS2560023 is an antibody targeting IST1. Also known as IST1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |




**Western Blot (WB) of anti-IST1 antibody**
Western blot analysis of Hela cell lysate using IST1 Polyclonal Antibody at dilution of 1:1000



**Immunohistochemistry (IHC) of anti-IST1 antibody**
Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using IST1 Polyclonal Antibody at dilution of 1:40(×200)

## ADDITIONAL DETAILS

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

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|---|---|
| **NCBI GI #** | 41281489 |
| **NCBI GeneID** | 9798 |
| **NCBI Accession #** | NP_055576.2 |
| **UniProt Primary Accession #** | P53990 |
| **UniProt Related Accession #** | P53990 |
| **GenBank Nucleotide #** | NP_055576.2 |
| **NCBI Official Full Name** | IST1 homolog isoform b |
| **NCBI Official Synonym Full Names** | IST1 factor associated with ESCRT-III |
| **NCBI Official Symbol** | IST1 |
| **NCBI Official Synonym Symbols** | OLC1; CHMP8 |
| **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 |
| **UniProt Entry Name** | IST1_HUMAN |
| **NCBI Protein Information** | IST1 homolog |

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| **UniProt Comments for IST1** | IST1: Proposed to be 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. Belongs to the IST1 family. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Vesicle; Cell cycle regulation<br><br>Chromosomal Location of Human Ortholog: 16q22.2<br><br>Cellular Component: centrosome; cytoplasmic membrane-bound vesicle; ER-Golgi intermediate compartment; midbody; cytosol<br><br>Molecular Function: protein domain specific binding; protein binding; protein complex binding<br><br>Biological Process: release of virus from host; protein localization; establishment of protein localization; cell division; positive regulation of proteolysis; abscission; cytokinesis; viral capsid re-envelopment; positive regulation of collateral sprouting |
| **Research Articles on IST1** | **1.** Nuclear overexpression of OLC1 was associated with clinicopathological parameters and could predict a poor overall survival in gastric adenocarcinoma. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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