

Datasheet for ABIN7554225
IST1 Protein (AA 1-364) (His tag)



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Overview

Quantity:	1 mg
Target:	IST1
Protein Characteristics:	AA 1-364
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IST1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat IST1 Protein expressed in mammalien cells.
Sequence:	<p>MLGSGFKAER LRVNLRVIN RLKLEKKT ELAQKARKEI ADYLAAGKDE RARIRVEHII REDYLVEAME ILELYCDLLL ARFGLIQSMK ELDSGLAESV STLIWAAPRL QSEVAELKIV ADQLCAKYSK EYGKLCRTNQ IGTVNDRLMH KLSVEAPPKI LVERYLIEIA KNYNVPYEPD SVVMAEAPPV VETDLIDVGF TDDVKKGGPG RGGSGGFTAP VGGPDGTVPM PMPMPMPAN TPFSYPLPKG PSDFNGLPMG TYQAFNIIHP PQIPATPPSY ESVDINADK NISSAQIVGP GPKPEASAKL PSRPADNYDN FVLPELPSVP DTLPTASAGA STSASEDIDF DDLRFRFEEL KKKT</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: IST1

Alternative Name: IST1 ([IST1 Products](#))

Background: IST1 homolog (hIST1) (Charged multivesicular body protein 8) (CHMP8) (Putative MAPK-activating protein PM28),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:19129480, PubMed: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). {ECO:0000269|PubMed:19129479, ECO:0000269|PubMed:19129480, ECO:0000269|PubMed:23897888, ECO:0000269|PubMed:26040712, ECO:0000269|PubMed:28242692}.

Target Details

Molecular Weight:	39.8 kDa
UniProt:	P53990
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months