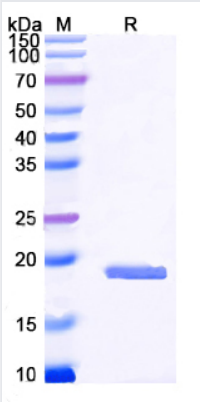
TPX2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TPX2, Recombinant Protein
Full Product Name	Recombinant Human TPX2 Protein, N-His
Product Gene Name	TPX2 recombinant protein
Product Synonym Names	Targeting protein for Xklp2; Differentially expressed in cancerous and non-cancerous lung cells 2; DIL-2; Hepatocellular carcinoma-associated antigen 519; Hepatocellular carcinoma-associated antigen 90; Protein fls353; Restricted expression proliferation-associated protein 100; p100; TPX2; C20orf1; C20orf2; DIL2; HCA519
Sequence	His261-Phe 402
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE.
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	85,653 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (30326904..30389603). Location: 20q11.2
OMIM	605917
3D Structure	ModBase 3D Structure for Q9ULW0
Species	Homo sapiens (Human)
Reconstitution	Reconstitute in sterile water for a stock solution. A copy of datasheet will be provided with the products, please refer to it for details.
Product Categories/Family for TPX2 recombinant protein	Recombinant Protein; Other Proteins; Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TPX2 recombinant protein	ELISA (EIA), Immunogen, SDS-PAGE, Western Blot (WB), Bioactivity testing in progress
Related Product Information for TPX2 recombinant protein	MBS1587639 is a recombinant protein targeting TPX2. Also known as Recombinant Human TPX2 Protein, N-His. Host: E coli.
Other Notes	Small volumes of TPX2 recombinant protein 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.



SDS-Page of TPX2 recombinant protein
SDS-PAGE for Recombinant Human TPX2 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPX2. It may not necessarily be applicable to this product.

NCBI GI #	20127519
NCBI GeneID	22974
NCBI Accession #	NP_036244.2
UniProt Primary Accession #	Q9ULW0
UniProt Secondary Accession #	Q9H1R4; Q9NRA3; Q9UFN9; Q9UL00; Q9Y2M1
UniProt Related Accession #	Q9ULW0
GenBank Nucleotide #	NM_012112.4
NCBI Official Full Name	targeting protein for Xklp2
NCBI Official Synonym Full Names	TPX2, microtubule-associated, homolog (Xenopus laevis)
NCBI Official Symbol	TPX2
NCBI Official Synonym Symbols	DIL2; p100; DIL-2; HCTP4; FLS353; HCA519; REPP86; C20orf1; C20orf2; GD:C20orf1
UniProt Protein Name	Targeting protein for Xklp2
UniProt Synonym Protein Names	Differentially expressed in cancerous and non-cancerous lung cells 2; DIL-2; Hepatocellular carcinoma-associated antigen 519; Protein fls353; Restricted expression proliferation-associated protein 100
Protein Family	Protein
UniProt Gene Name	TPX2
UniProt Synonym Gene Names	C20orf1; C20orf2; DIL2; HCA519; DIL-2; p100
UniProt Entry Name	TPX2_HUMAN
NCBI Protein Information	targeting protein for Xklp2; protein fls353; differentially expressed in lung cells; TPX2, microtubule-associated protein homolog; preferentially expressed in colorectal cancer; hepatocellular carcinoma-associated antigen 519; restricted expression prolif

UniProt Comments for TPX2	TPX2: a microtubule-associated protein required for meiotic and mitotic spindle assembly. Targets a plus end-directed motor (XKLP2) to the minus ends of microtubules in the mitotic spindle. Required for microtubule nucleation around chromosomes in response to the local generation of RanGTP. Binds to and activates Aurora A kinase and targets it to the mitotic spindle. Protein type: Microtubule-binding; Cell cycle regulation Chromosomal Location of Human Ortholog: 20q11.2 Cellular Component: nucleoplasm; microtubule cytoskeleton; axon hillock; spindle pole; microtubule; cytoplasm; spindle; nucleus Molecular Function: protein binding; GTP binding; protein kinase binding; ATP binding Biological Process: mitosis; cell proliferation; apoptosis; cell division; activation of protein kinase activity
Research Articles on TPX2	**1.** the regulation of gamma-H2AX signals by TPX2 is not associated with apoptosis or the mitotic functions of TPX2.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/tpx2/1587639