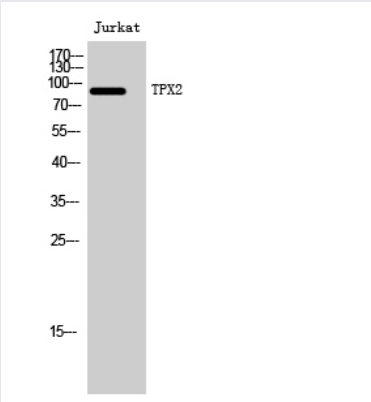
TPX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TPX2, Polyclonal Antibody
Full Product Name	TPX2 Polyclonal Antibody
Product Gene Name	anti-TPX2 antibody
Product Synonym Names	TPX2; C20orf1; C20orf2; DIL2; HCA519; Targeting protein for Xklp2; Differentially expressed in cancerous and non-cancerous lung cells 2; DIL-2; Hepatocellular carcinoma-associated antigen 519; Protein fls353; Restricted expression prolifera
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
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
Applications Tested/Suitable for anti-TPX2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-TPX2 antibody	Spindle assembly factor required for normal assembly of mitotic spindles. Required for normal assembly of microtubules during apoptosis. Required for chromatin and/or kinetochore dependent microtubule nucleation. Mediates AURKA localization to spindle microtubules (PubMed:19208764). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed:19208764). TPX2 is inactivated upon binding to importin- alpha (PubMed:26165940). At the onset of mitosis, GOLGA2 interacts with importin-alpha, liberating TPX2 from importin-alpha, allowing TPX2 to activates AURKA kinase and stimulates local microtubule nucleation (PubMed:26165940).
Other Notes	Small volumes of anti-TPX2 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 TPX2 purchase	MBS9245463 is an antibody targeting TPX2. Also known as TPX2 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Wester Blot (WB) of anti-TPX2 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

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.
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