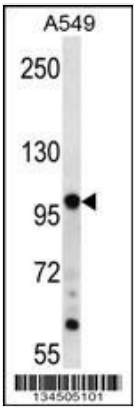
TPX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TPX2, Polyclonal Antibody
Full Product Name	TPX2, ID (TPX2, C20orf1, C20orf2, DIL2, HCA519, Targeting protein for Xklp2, Differentially expressed in cancerous and non-cancerous lung cells 2, Hepatocellular carcinoma-associated antigen 519, Protein fls353, Restricted expression proliferation-associa
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; Hepatocellular carcinoma-associated antigen 519; Protein fls353; Restricted expression proliferation-associated protein 100
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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
Immunogen	TPX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 418-448 amino acids from the Central region of human TPX2.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TPX2 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-TPX2 antibody	Western Blot (WB), FLISA
Application Notes for anti-TPX2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TPX2 antibody	TPX2 is a 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. Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation.

Product References and Citations for anti-TPX2 antibody	Olson, J.E., et al. Breast Cancer Res. Treat. (2010). In press: Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009). Bibby, R.A., et al. J. Biol. Chem. 284(48):33177-33184(2009). Shigeishi, H., et al. Int. J. Oncol. 34(6):1565-1571(2009). Moss, D.K., et al. J. Cell. Sci. 122 (PT 5), 644-655 (2009).
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	MBS6357792 is an antibody targeting TPX2. Also known as TPX2, ID (TPX2, C20orf1, C20orf2, DIL2, HCA519, Targeting protein for Xklp2, Differentially expressed in cancerous and non-cancerous lung cells 2, Hepatocellular carcinoma-associated antigen 519, Protein fls353, Restricted expression proliferation-associa. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TPX2 antibody
TPX2 Antibody (Center) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the TPX2 antibody detected the TPX2 protein (arrow).

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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