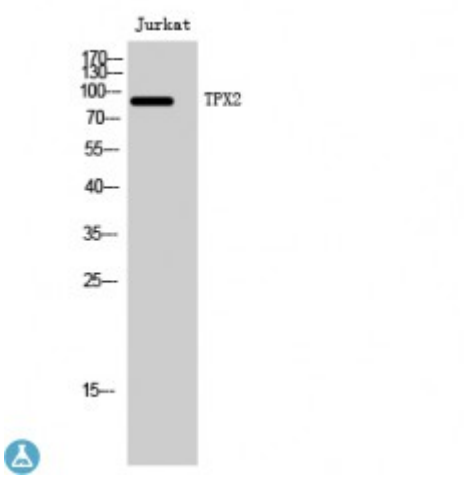
Anti-TPX2 antibody



Description	Rabbit polyclonal to TPX2.

Model	STJ96077
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human TPX2
Immunogen Region	270-350 aa, Internal
Gene ID	22974
Gene Symbol	TPX2
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:10000
Specificity	TPX2 Polyclonal Antibody detects endogenous levels of TPX2 protein.
Tissue Specificity	Expressed in lung carcinoma cell lines but not in normal lung tissues.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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 Restri
Molecular Weight	86 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1249OMIM:605917
Alternative 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 Restri
Function	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 . TPX2 is inactivated upon binding to importin-alpha . 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 .
Cellular Localization	Nucleus Cytoplasm, cytoskeleton, spindle Cytoplasm, cytoskeleton, spindle pole. During mitosis it is strictly associated with the spindle pole and with the mitotic spindle, whereas during S and G2, it is diffusely distributed throughout the nucleus. Is released from the nucleus in apoptotic cells and is detected on apoptotic microtubules.