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KD-Validated Anti-TPX2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2286

Product Information

Application	WB
Primary Accession	Q9ULW0
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB4765
Calculated MW	85653
Gene Name	TPX2
Aliases	TPX2; TPX2 Microtubule Nucleation Factor; HCA519; DIL-2; P100; Hepatocellular Carcinoma-Associated Antigen 519; Targeting Protein For Xklp2; C20orf1; C20orf2; FLS353; Differentially Expressed In Cancerous And Non-Cancerous Lung Cells 2; Differentially Expressed In Cancerous And Noncancerous Lung Cells 2; Hepatocellular Carcinoma-Associated Antigen 90; Protein Fls353; DIL2; Restricted Expression Proliferation Associated Protein 100; Restricted Expression Proliferation-Associated Protein 100; TPX2, Microtubule-Associated, Homolog (Xenopus Laevis); Preferentially Expressed In Colorectal Cancer; TPX2, Microtubule-Associated Protein Homolog; Differentially Expressed In Lung Cells; TPX2, Microtubule-Associated, Homolog; Chromosome 20 Open Reading Frame 1; TPX2, Microtubule-Associated; GD:C20orf1; REPP86; HCTP4
Immunogen	A synthesized peptide derived from human TPX2

Additional Information

Gene ID	22974
Other 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

Protein Information

Name	TPX2
Synonyms	C20orf1, C20orf2, DIL2, HCA519
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 (PubMed:18663142,

	PubMed:19208764, PubMed:37728657). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed:18663142, 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 activate AURKA kinase and stimulate local microtubule nucleation (PubMed:26165940).
Cellular Location	Nucleus. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Note=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.
Tissue Location	Expressed in lung carcinoma cell lines but not in normal lung tissues

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