TTK Antibody End (2355) Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com Strask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #P33981	Entrez-Gene Id: 7272	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM soc 20°C. Do not aliquot th		i), 150 mM NaCl, 100 μg	/ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		TTK Antibody detects endogenous levels of total TTK protein. TTK, also known as PYT (<i>Phosphotyrosine Picked Threonine Kinase</i>), is the human homolog of MSP1 (M <i>onopolar Spindle 1</i>) in budding yeast and murine ESK (<i>Embryonal Carcinoma STY Kinase</i>).					
Species predicted to react based on 100% sequence homology		Monkey					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu137 of human TTK. Antibodies were purified by affinity chromatography.					
Background		and cell lines (1-3). TTH mitotic spindle checkp into anaphase until all genomic instability an maintains chromosom spindle checkpoint res TTK also participates in cycle checkpoint kinas phosphatase cdc25 an accumulation of inacti	K localizes to kineto oint as well as cent chromosomes are d tumorigenesis. P the stability during n ponse, thereby ma n the DNA damage e Chk2 at Thr68. Tw d the transcription ve cyclin B and cell es the transcriptior	ual specificity kinase pro chores and centromeres crosome duplication (4-6 attached to the spindle; hosphorylation of the Bl nitosis (7). Small molecu king TTK a potential the response by directly ph vo targets phosphorylat factor p53. Inactivation cycle arrest following D factor and promotes ce	s and is an essentia b). The mitotic check c inhibition of this p LM helicase at Ser14 le inhibitors of TTK rapeutic target (8,9 osphorylating and a ed by Chk2 are the of cdc25 phosphata NA damage. Phospl	l component of the spoint inhibits entry rocess leads to 44 by TTK can block the). activating the cell cell cycle ase results in the horylation of p53	
Background Re	eferences	5. Dou, Z. et al. (2003) 6. Abrieu, A. et al. (200	002) EMBO J. 21, 17 (1993) Oncogene 8 8) Proc. Natl. Acad. Cell Res. 13, 443-44 1) Cell 106, 83-93. 1) Proc. Natl. Acad. 2 005) EMBO Rep. 6, 05) Curr. Biol. 15, 10	723-1732. , 351-359. <i>Sci. USA</i> 100, 14875-148 9. S <i>ci. USA</i> 103, 11485-1149 866-872.)70-1076.			
Species Reactiv	/ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat	
Applications Ke	ey	W: Western Blotting IF	P: Immunoprecipita	ition			
Cross-Reactivity Key		H: Human					

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