For Research Use Only

## TTK Polyclonal antibody Catalog Number: 10381-1-AP Featured Produ

Featured Product



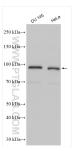


Basic Information	Catalog Number: 10381-1-AP	GenBank Accession Number: BC000633		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG0405	GeneID (NCBI): 7272 UNIPROT ID: P33981 Full Name: TTK protein kinase Calculated MW: 97 kDa		Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:50-1:500	
		Observed MW: 96-97 kDa			
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications:		WB : DU 145 o cells	WB : DU 145 cells, HEK-293 cells, MCF-7 cells, HeLa cells IP : DU 145 cells,	
	WB, IHC, IF		IP : DU 145 ce		
	Species Specificity: human, mouse		IHC : human breast cancer tissue, human kidney tissu human liver cancer tissue, human testis tissue, mouse		
	Cited Species: human, mouse		colon tissue		
	Note-IHC: suggested antigen retrieval with <b>TE buffer pH 9.0; (*)</b> Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	Mps1 family of kinases colocalizes with mitotic checkpoint proteins in kinetochores and/or spindle pole bodies/centrosomes. TTK has been shown to be a cell cycle-regulated kinase displaying maximum activity during M phase(PMID:15618221). Its kinase activity is required for proper chromosome segregation during mitosis through its involvements in microtubule-chromosome attachment error correction and the mitotic checkpoint(PMID:20937696). TTK mRNA is present at relatively high levels in testis and thymus, tissues which contain a large number of proliferating cells, but is not detected in most other benign tissues (PMID:1639825). It has 2 isoforms produced by alternative splicing (PMID:25137017).				
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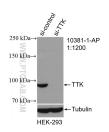
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

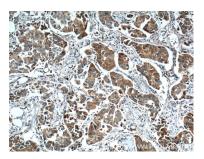
## Selected Validation Data



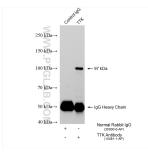
Various lysates were subjected to SDS PAGE followed by western blot with 10381-1-AP (TTK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



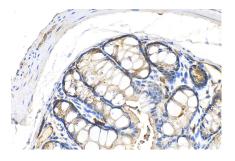
WB result of TTK antibody (10381-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-TTK transfected HEK-293 cells.



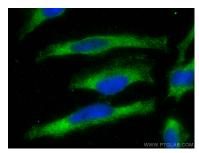
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10381-1-AP (TTK Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



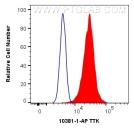
IP result of anti-TTK (IP:10381-1-AP, 4ug; Detection:10381-1-AP 1:600) with DU 145 cells lysate 1280 ug.



Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using 10381-1-AP (TTK antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using TTK antibody (10381-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human TTK (10381-1-AP) and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).