

For Research Use Only

TTK Polyclonal antibody, PBS Only

Catalog Number:10381-1-PBS

Featured Product



Basic Information

Catalog Number:

10381-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0405

GenBank Accession Number:

BC000633

GeneID (NCBI):

7272

UNIPROT ID:

P33981

Full Name:

TTK protein kinase

Calculated MW:

97 kDa

Observed MW:

96-97 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, Indirect ELISA

Species Specificity:

human, mouse

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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

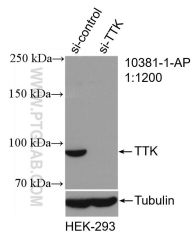
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

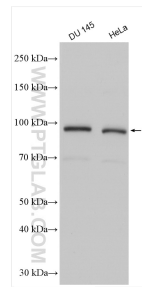
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

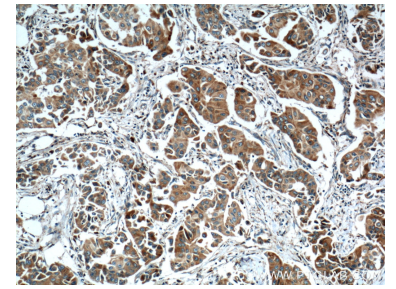
Selected Validation Data



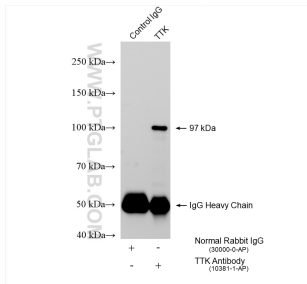
WB result of TTK antibody (10381-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-TTK transfected HEK-293 cells. This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



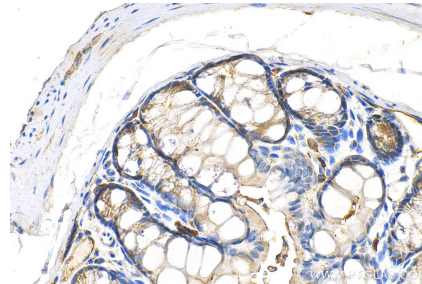
Various lysates were subjected to SDS PAGE followed by western blot with 10381-1-AP (TTK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



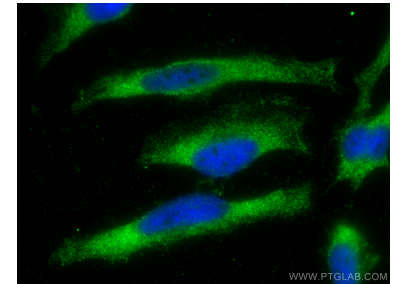
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10381-1-AP (TTK Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



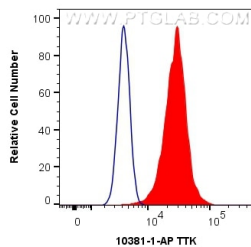
IP result of anti-TTK (IP:10381-1-AP, 4ug; Detection:10381-1-AP 1:600) with DU 145 cells lysate 1280 ug. This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded 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). This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.



1x10⁶ 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). This data was developed using the same antibody clone with 10381-1-PBS in a different storage buffer formulation.