

For Research Use Only

ZIP kinase Polyclonal antibody

Catalog Number: 19540-1-AP



Basic Information

Catalog Number: 19540-1-AP	GenBank Accession Number: NM_001348	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 1613	Recommended Dilutions: IHC 1:250-1:1000 IF/ICC 1:20-1:200
Source: Rabbit	UNIPROT ID: O43293	
Isotype: IgG	Full Name: death-associated protein kinase 3	
	Calculated MW: 53 kDa	
	Observed MW: 37, 52 kDa	

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human stomach cancer tissue, rat colon tissue, rat heart tissue, mouse colon tissue

IF/ICC : HeLa cells, U-251 cells

Background Information

ZIP kinase, also named as ZIPK and Dlk, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and DAP kinase subfamily. ZIP kinase is a Serine/threonine kinase which acts as a positive regulator of apoptosis. ZIP kinase phosphorylates histone H3 on 'Thr-11' at centromeres during mitosis. ZIP kinase regulates myosin light chain phosphatase through phosphorylation of MYPT1 thereby regulating the assembly of the actin cytoskeleton, cell migration, invasiveness of tumor cells, smooth muscle contraction and neurite outgrowth. It catalyze the reaction: ATP + a protein = ADP + a phosphoprotein.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

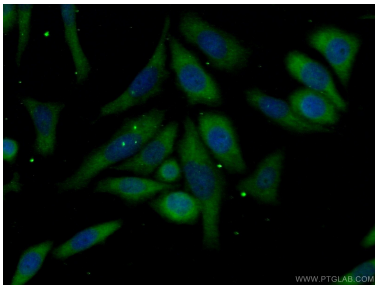
For technical support and original validation data for this product please contact:

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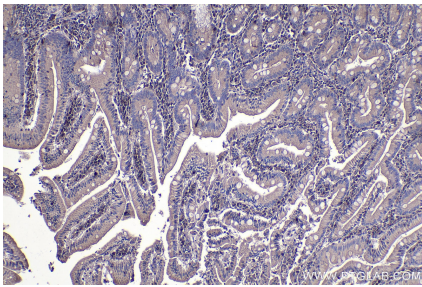
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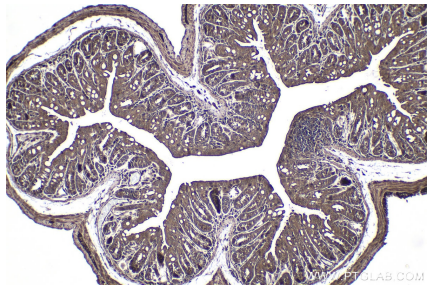
Selected Validation Data



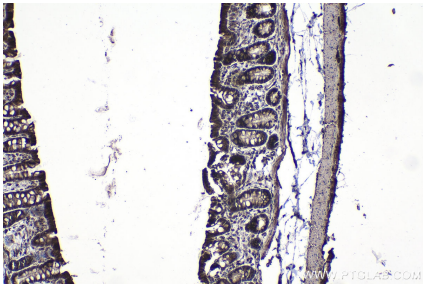
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 19540-1-AP (ZIP kinase antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



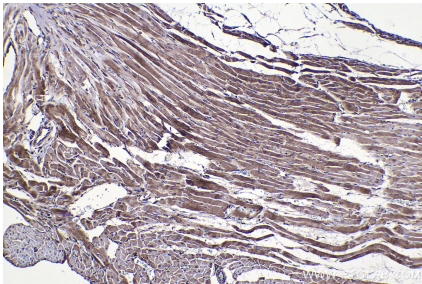
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 19540-1-AP (ZIP kinase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 19540-1-AP (ZIP kinase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 19540-1-AP (ZIP kinase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 19540-1-AP (ZIP kinase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using ZIP kinase antibody (19540-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).