

For Research Use Only

ZAK Polyclonal antibody

Catalog Number: 28761-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

28761-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30599

GenBank Accession Number:

BC001401

GeneID (NCBI):

51776

UNIPROT ID:

Q9NYL2

Full Name:

sterile alpha motif and leucine zipper containing kinase AZK

Calculated MW:

91 kDa

Observed MW:

91kDa, 51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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:

WB : HeLa cells, Jurkat cells, MDA-MB-231 cells

IHC : human colon cancer tissue, rat tongue tissue, mouse tongue tissue

IF/ICC : HepG2 cells,

Background Information

ZAK(sterile-alpha motif and leucine zipper containing kinase AZK) is also named as MLTK, MAPKKK, mlklak, MLK7, AZK, MLT, MRK, HCCS-4, MAP3K20 and belongs to the MAPKKK family. It is a mitogen-activated protein kinase kinase kinase (MAP3K) that activates the stress-activated protein kinase/c-jun N-terminal kinase pathway and activates NF-kappaB. ZAK contributes to regulation of DNA damage checkpoints through a p38gamma-independent pathway. This protein has 3 isoforms produced by alternative splicing with the MW of 91 kDa, 51 kDa and 35 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Weiming Ma	39725663	J Cell Mol Med	WB
Yunfei Li	36726140	Genome Biol	WB

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

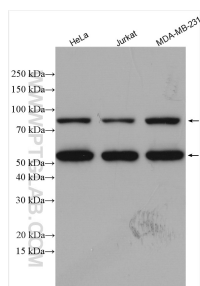
For technical support and original validation data for this product please contact:

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

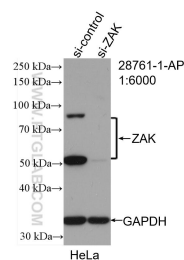
E: proteintech@ptglab.com
W: ptglab.com

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

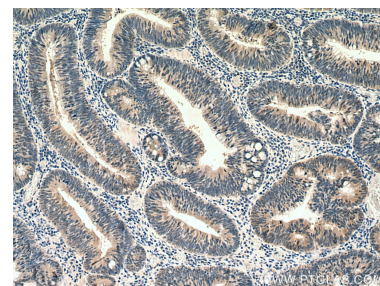
Selected Validation Data



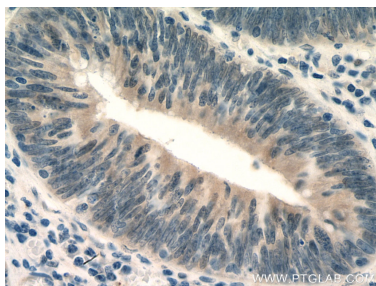
Various lysates were subjected to SDS PAGE followed by western blot with 28761-1-AP (ZAK antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



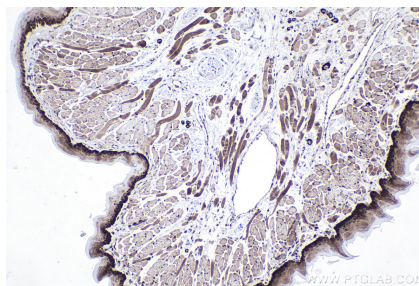
WB result of ZAK antibody (28761-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ZAK transfected HeLa cells.



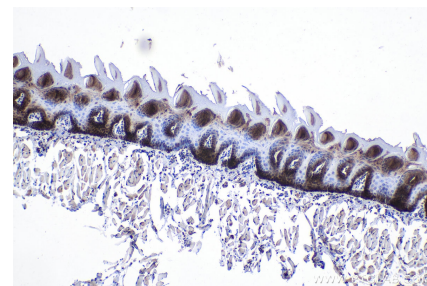
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 28761-1-AP (ZAK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 28761-1-AP (ZAK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse tongue tissue slide using 28761-1-AP (ZAK 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 tongue tissue slide using 28761-1-AP (ZAK antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ZAK antibody (28761-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).