

For Research Use Only

p38 MAPK Monoclonal antibody

Catalog Number: 66234-1-Ig

Featured Product

78 Publications



Basic Information

Catalog Number: 66234-1-Ig	GenBank Accession Number: BC031574	Purification Method: Protein A purification
Size: 150ul , Concentration: 2000 ug/ml by Nanodrop and 886 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1432	CloneNo.: 1A1C2
Source: Mouse	UNIPROT ID: Q16539	Recommended Dilutions: WB 1:2000-1:6000 IHC 1:250-1:1000 IF/ICC 1:1000-1:4000
Isotype: IgG2b	Full Name: mitogen-activated protein kinase 14	
Immunogen Catalog Number: AG5797	Calculated MW: 360 aa, 41 kDa	
	Observed MW: 38-42 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, Jurkat cells, HEK-293 cells, pig heart tissue, human heart tissue, K-562 cells, HSC-T6 cells, RAW 264.7 cells, MCF-7 cells IHC : human lung cancer tissue, human gliomas tissue IF/ICC : HepG2 cells,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat, pig	
Cited Species: human, mouse, rat, pig	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MAPK14(mitogen-activated protein kinase 14) is also named as SAPIK2A, p38MAPK, CSBP1, RK, p38, EXIP, Mxi2, CSBP2, PRKM14, PRKM15, CSPB1, p38ALPHA and belongs to the MAP kinase subfamily. MAPK14-signaling is a central pathway for the integration of instructive signals in dendritic cells for T(H)17 differentiation and inflammation(PMID:22231518). It plays an important role in the regulation of hematopoietic stem cell self-renewal in vitro and inhibition of MAPK14 activation with a small molecule inhibitor may represent a novel approach to promote ex vivo expansion of hematopoietic stem cell(PMID:21198398). This protein has 4 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Ting Tang	33173989	Mol Med Rep	WB,IHC
Weiche Wu	30273672	Free Radic Biol Med	WB
Hongfei Zhou	36115171	Phytomedicine	WB

Storage

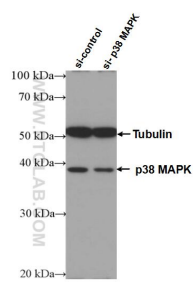
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

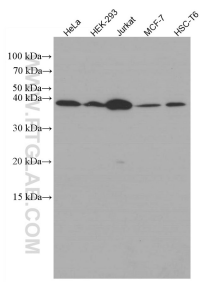
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

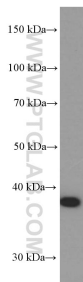
Selected Validation Data



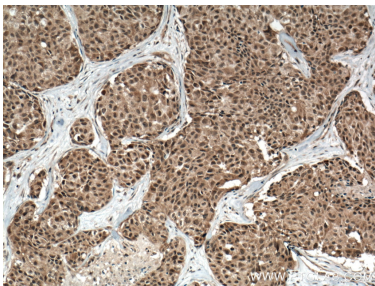
WB result of p38 MAPK antibody (66234-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 MAPK transfected HEK-293 cells.



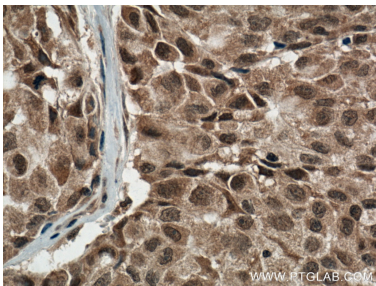
Various lysates were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



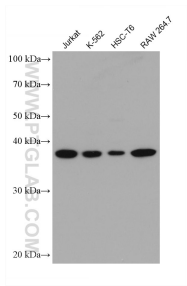
human heart tissue were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



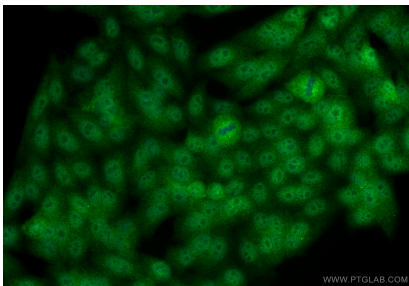
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66234-1-Ig (p38 MAPK antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66234-1-Ig (p38 MAPK antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using p38 MAPK antibody (66234-1-Ig, Clone: 1A1C2) at dilution of 1:2000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).