

For Research Use Only

# p38 MAPK Monoclonal antibody

Catalog Number: 66234-1-Ig

Featured Product

54 Publications



## Basic Information

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

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB :</b> 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
<b>Species Specificity:</b> human, pig, mouse, rat	<b>IHC :</b> human lung cancer tissue, human gliomas tissue
<b>Cited Species:</b> human, rat, mouse, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

MAPK14(mitogen-activated protein kinase 14) is also named as SAPK2A, 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

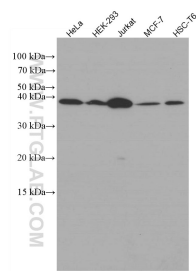
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

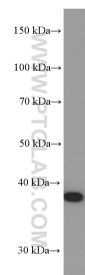
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

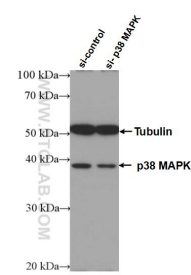
Selected Validation Data



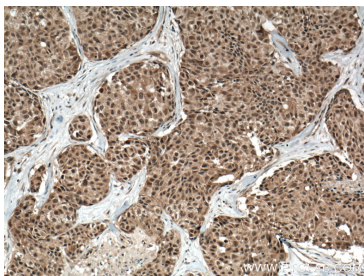
Various lysates were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



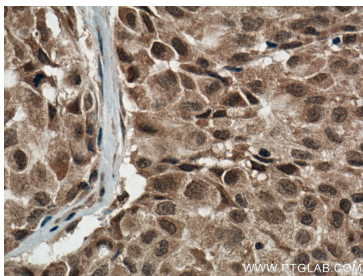
human heart tissue were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



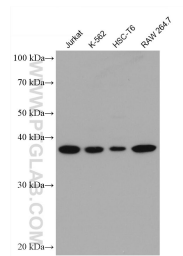
WB result of p38 MAPK antibody (66234-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 MAPK transfected HEK-293 cells.



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.