

For Research Use Only

# p38 MAPK Monoclonal antibody

Catalog Number: 66234-1-Ig

Featured Product

78 Publications



## Basic Information

Catalog Number:

66234-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG5797

GenBank Accession Number:

BC031574

GeneID (NCBI):

1432

UNIPROT ID:

Q16539

Full Name:

mitogen-activated protein kinase 14

Calculated MW:

360 aa, 41 kDa

Observed MW:

38-42 kDa

Purification Method:

Protein A purification

CloneNo.:

1A1C2

Recommended Dilutions:

WB 1:2000-1:6000

IHC 1:250-1:1000

IF/ICC 1:1000-1:4000

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

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**

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,

## 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

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

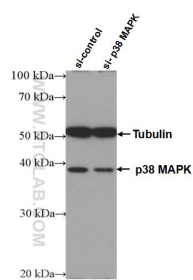
T: 4006900926

E: Proteintech-CN@ptglab.com

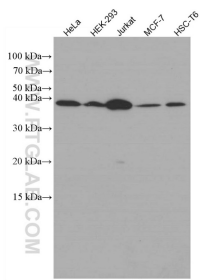
W: ptgcn.com

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

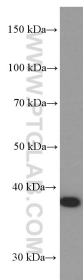
Selected Validation Data



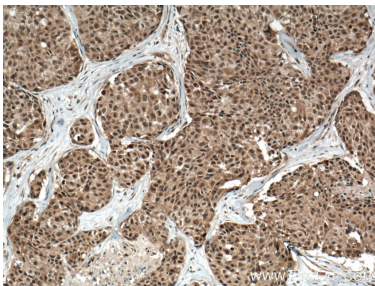
WB result of p38 MAPK antibody (66234-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 MAPK transfected HEK-293 cells.



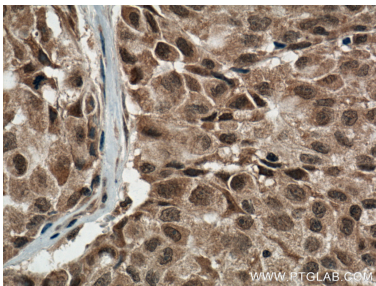
Various lysates were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



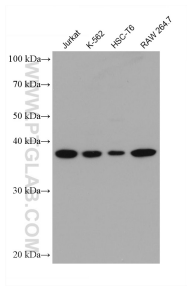
human heart tissue were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



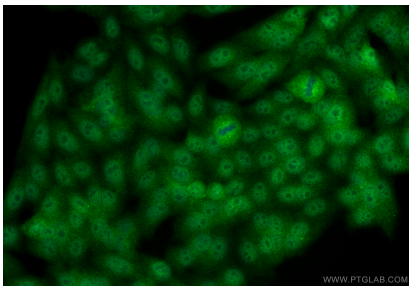
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66234-1-Ig (p38 MAPK antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).