For Research Use Only

p38 MAPK Monoclonal antibody

Catalog Number:66234-1-Ig Featured Product 79 Publications

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Basic Information

Catalog Number:
66234-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop and 886 ug/ml by Bradford method using BSA as the standard;

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 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

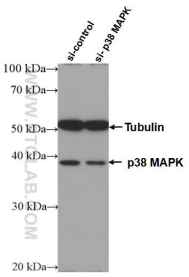
Storage

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

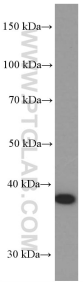
*** 20ul sizes contain 0.1% BSA

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

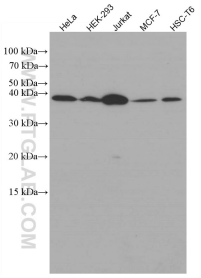
Selected Validation Data



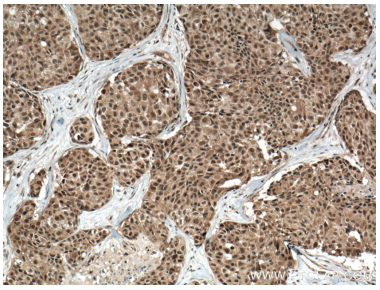
WB result of p38 MAPK antibody (66234-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 MAPK transfected HEK-293 cells.



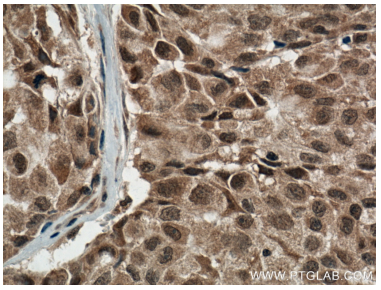
human heart tissue were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



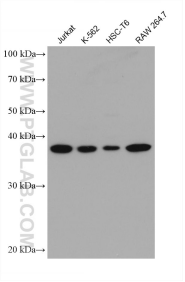
Various lysates were subjected to SDS PAGE followed by western blot with 66234-1-Ig (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



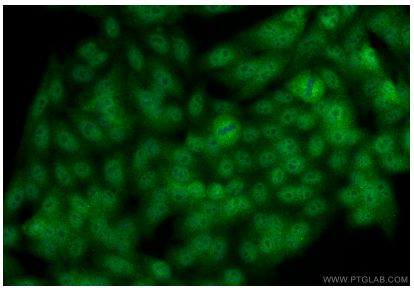
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66234-1-Ig (p38 MAPK antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).