

For Research Use Only

# Multi-rAb™ p38 MAPK Multi-Recombinant antibody

Catalog Number: RMX00006



## Basic Information

<b>Catalog Number:</b> RMX00006	<b>GenBank Accession Number:</b> BC031574	<b>Purification Method:</b> N/A
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1432	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF/ICC 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q16539	
<b>Isotype:</b> IgG	<b>Full Name:</b> mitogen-activated protein kinase 14	
	<b>Calculated MW:</b> 360 aa, 41 kDa	
	<b>Observed MW:</b> 38-42 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IP, ELISA

**Species Specificity:**  
human, mouse

**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 :** HEK-293 cells, Jurkat cells, NIH/3T3 cells, PC-12 cells, mouse heart tissue, rat heart tissue

**IP :** HEK-293 cells,

**IHC :** human lung cancer tissue, mouse heart 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.

## Storage

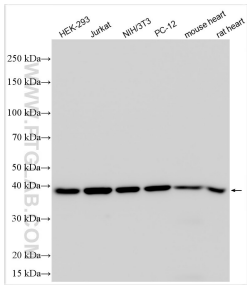
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

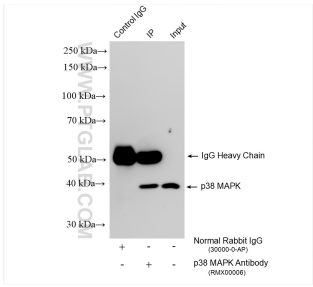
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

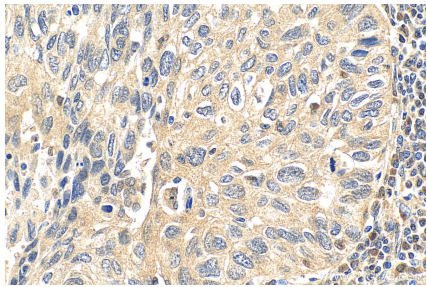
Selected Validation Data



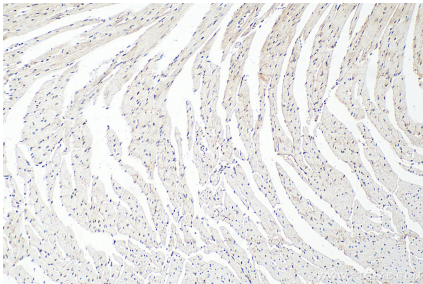
Various lysates were subjected to SDS PAGE followed by western blot with RMX00006 (p38 MAPK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



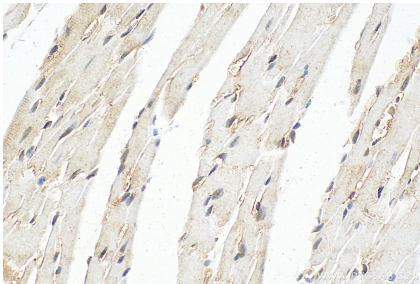
IP result of anti-p38 MAPK (IP:RMX00006, 4ug; Detection:RMX00006 1:10000) with HEK-293 cells lysate 1360 ug.



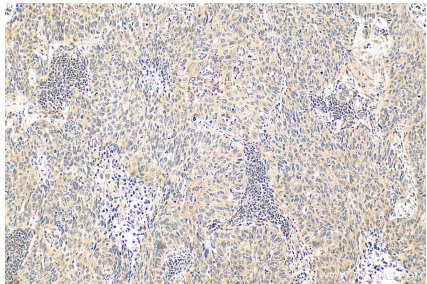
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using RMX00006 (p38 MAPK antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



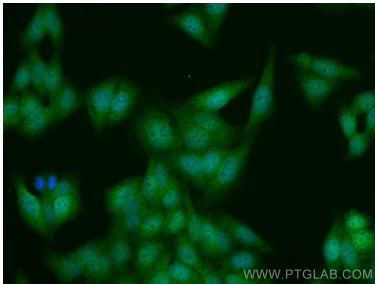
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using RMX00006 (p38 MAPK antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using RMX00006 (p38 MAPK antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using RMX00006 (p38 MAPK antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using p38 MAPK antibody (RMX00006) at dilution of 1:1000 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).