

For Research Use Only

p38 MAPK Polyclonal antibody

Catalog Number: 14064-1-AP

Featured Product

456 Publications



Basic Information

| | | |
|--|--|---|
| Catalog Number: 14064-1-AP | GenBank Accession Number: BC031574 | Purification Method: Antigen affinity purification |
| Concentration: 600 ug/ml | GeneID (NCBI): 1432 | Recommended Dilutions: WB 1:2000-1:12000 IHC 1:200-1:800 |
| Source: Rabbit | UNIPROT ID: Q16539 | |
| Isotype: IgG | Full Name: mitogen-activated protein kinase 14 | |
| Immunogen Catalog Number: AG5115 | Calculated MW: 360 aa, 41 kDa | |
| | Observed MW: 38-42 kDa | |

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, rabbit, chicken, zebrafish, goat, fish, duck

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, mouse heart tissue, Jurkat cells, RAW 264.7 cells, Neuro-2a cells, NIH/3T3 cells, rat spleen tissue, rat heart tissue, K-562 cells

IHC : human colon cancer tissue, human liver cancer tissue

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 some isoforms with MW 29-31 kDa, 35 kDa and 41 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------------|-------------|
| Zemin Zhu | 36175845 | BMC Mol Cell Biol | WB |
| Xin-Sen Chen | 36182039 | Pharmacol Res | WB |
| Liping Wang | 34559939 | IUBMB Life | 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

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

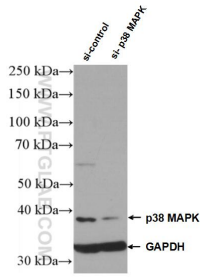
T: 4006900926

E: Proteintech-CN@ptglab.com

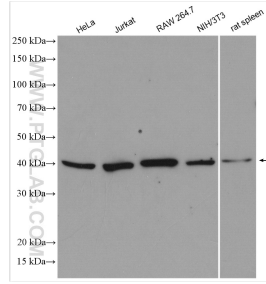
W: ptgcn.com

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

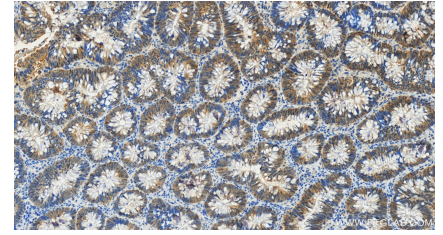
Selected Validation Data



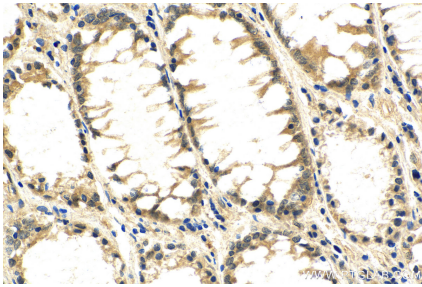
WB result of p38 antibody (14064-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 transfected Jurkat cells.



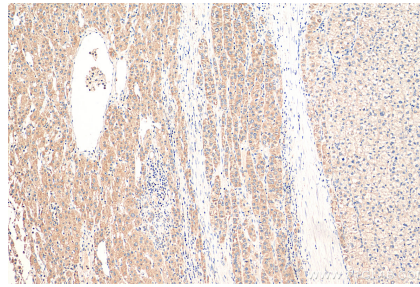
Various lysates were subjected to SDS PAGE followed by western blot with 14064-1-AP (p38 MAPK antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



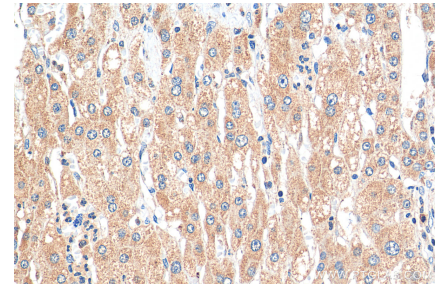
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14064-1-AP (p38 MAPK antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14064-1-AP (p38 MAPK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14064-1-AP (p38 MAPK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14064-1-AP (p38 MAPK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).