For Research Use Only

p38 MAPK Polyclonal antibody

Catalog Number:14064-1-AP Featured Product 463 Publications

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Basic Information

Catalog Number:
14064-1-AP

Concentration:
600 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5115

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:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IHC 1:200-1:800

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, rabbit, canine, chicken, 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 cellself-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

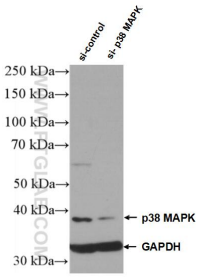
Author	Pubmed ID	Journal	Application
Zemin Zhu	36175845	BMC Mol Cell Biol	WB
Xin-Sen Chen	36182039	Pharmacol Res	WB
Liping Wang	34559939	IUBMB Life	WB

Storage

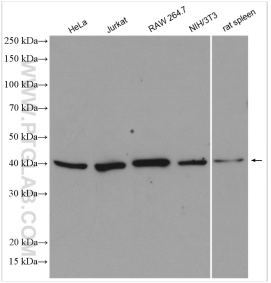
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

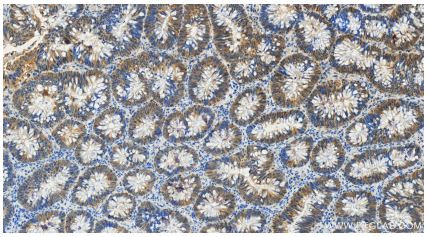
Selected Validation Data



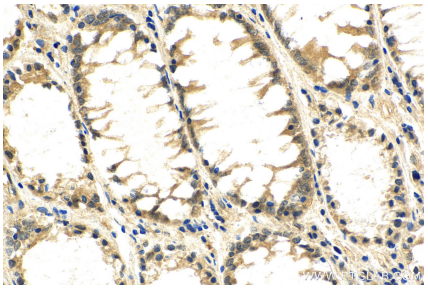
WB result of p38 antibody (14064-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p38 transfected Jurkat cells.



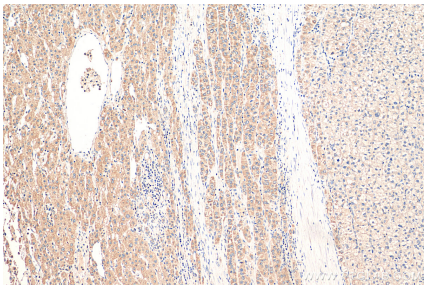
Various lysates were subjected to SDS PAGE followed by western blot with 14064-1-AP (p38 MAPK antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



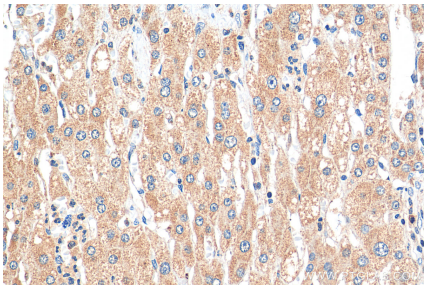
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14064-1-AP (p38 MAPK antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).