For Research Use Only

p38 MAPK Polyclonal ANTIBODY
Catalog Number: 14064-1-AP

**Basic Information**

- **Catalog Number:** 14064-1-AP
- **Size:** 45 µg/150 µl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG5115
- **GenBank Accession Number:** BC001574
- **GeneID (NCBI):** 1432
- **Recommended Dilutions:**
  - WB: 1:500-1:2000
  - IF: 1:20-1:200

**Applications**

- **Tested Applications:** IF, WB, ELISA
- **Cited Applications:** IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** A. sphaerocephala Krasch, human, mouse, rabbit, rat
- **Note:** suggested antigen retrieval with TE buffer pH 9.0; (1) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**
- WB: HeLa cells, Jurkat cells, mouse heart tissue, rat heart tissue
- IF: HepG2 cells

**Background Information**

MAPK14 (mitogen-activated protein kinase 14) is also named as SAPK2A, p38β/γ, CSBP1, RK, p38, ERK1/2, CSBP2, PRKM14, PRKM15, CSBP1, p38MAPK 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**

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<td>Yuqing Mao</td>
<td>27965476</td>
<td>Biomed Pharmacother</td>
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<td>Jian-Min Lv</td>
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**Storage**

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

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For technical support and original validation data for this product please contact:
T: (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (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

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 1:1000 incubated at room temperature for 1.5 hours

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 14064-1-AP (p38 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Anti-Rabbit IgG(H+L)