

For Research Use Only

# MAPKAPK2 Polyclonal antibody

Catalog Number: 13949-1-AP **8 Publications**



## Basic Information

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|--|--|--|
| <b>Catalog Number:</b><br>13949-1-AP   | <b>GenBank Accession Number:</b><br>BC036060                                     | <b>Purification Method:</b><br>Antigen affinity purification                         |
| <b>Size:</b><br>150ul , Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>9261  | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500<br>IF 1:200-1:800 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>mitogen-activated protein kinase-activated protein kinase 2 |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>400 aa, 46 kDa  |  |
| <b>Immunogen Catalog Number:</b><br>AG5060   | <b>Observed MW:</b><br>47-50 kDa   |  |

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

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** : HeLa cells, A549 cells, mouse skeletal muscle tissue, mouse colon tissue

**IHC** : human breast cancer tissue, human kidney tissue

**IF** : HeLa cells,

## Background Information

MAPKAPK2(mitogen-activated protein kinase-activated protein kinase 2) is also named as MK2, MAPKAP-K2, MK-2 and belongs to the CAMK Ser/Thr protein kinase family. MAPKAPK2, one of several kinases directly phosphorylated and activated by p38 MAPK, plays a central role in the inflammatory response and is in the nucleus of unstimulated cells and moves rapidly to the cytoplasm after stimulation(PMID:12171911). It is also involved in many other cellular processes including stress responses, nuclear export, gene expression regulation and cell proliferation. Multiple residues of MAPKAPK2 are generally phosphorylated in vivo in response to stress, but only 4 residues(Thr25, Thr222, Ser272, and Thr334) are phosphorylated by p38 MAPK in vitro(PMID:22351694). It has 2 isoforms produced by alternative splicing and the range of the molecular weight is 42-60 kDa according to the references(PMID:10666409; 11328854;8995385).

## Notable Publications

| Author     | Pubmed ID | Journal        | Application |
|------------|-----------|----------------|-------------|
| Yan Zhang  | 34731635  | Cell Rep       | WB          |
| Rui Wang   | 31575657  | Mol Cancer Res | WB          |
| Fengze Sun | 34795209  | Cell Death Dis | WB,IHC      |

## 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**

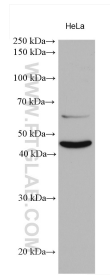
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

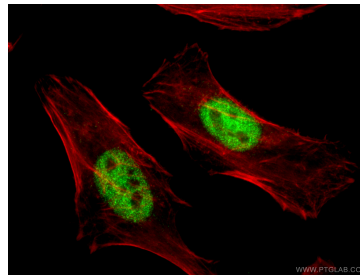
E: proteintech@ptglab.com  
W: ptglab.com

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

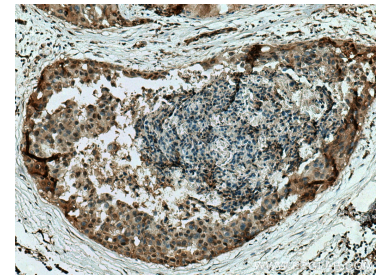
## Selected Validation Data



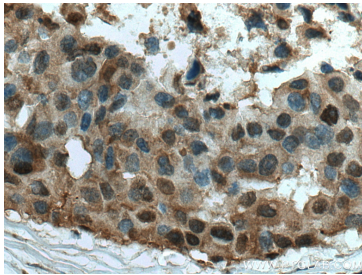
HeLa cells were subjected to SDS PAGE followed by western blot with 13949-1-AP (MAPKAPK2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 13949-1-AP (MAPKAPK2 antibody), at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L); F-actin is stained using CL555-phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13949-1-AP (MAPKAPK2 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 breast cancer tissue slide using 13949-1-AP (MAPKAPK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).