

# MAPKAPK2 Recombinant antibody

Catalog Number: 82929-1-RR

## Basic Information

**Catalog Number:**

82929-1-RR

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG34196

**GenBank Accession Number:**

BC036060

**GeneID (NCBI):**

9261

**UNIPROT ID:**

P49137

**Full Name:**mitogen-activated protein kinase-  
activated protein kinase 2**Calculated MW:**

400 aa, 46 kDa

**Observed MW:**

42-46 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

230197A9

**Recommended Dilutions:**

WB 1:500-1:3000

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IF/ICC, ELISA

**Species Specificity:**

Human

**Positive Controls:**

WB : A549 cells, HeLa cells, HEK-293T cells

IF/ICC : 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).

## 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

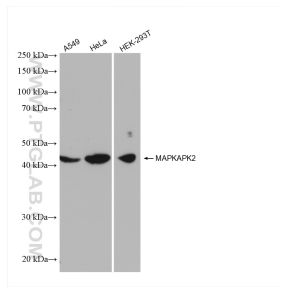
For technical support and original validation data for this product please contact:

T: 4006900926

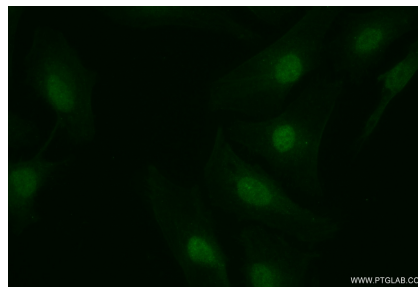
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82929-1-RR (MAPKAPK2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MAPKAPK2 antibody (82929-1-RR, Clone: 230197A9) at dilution of 1:150 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).