

## MAPKAPK2 Polyclonal Antibody

Catalog number: 13949-1-AP

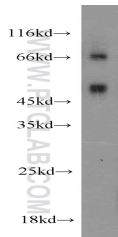
Size: 20 µg/150 µl

Source: Rabbit

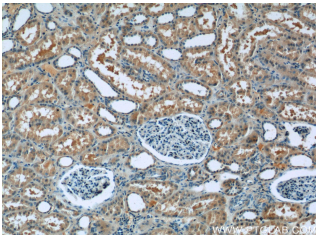
Isotype: IgG

Synonyms:

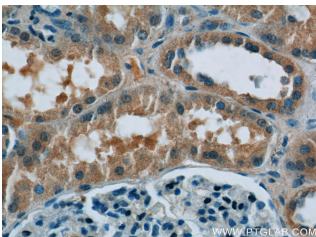
MAPKAPK2; MAPKAP kinase 2, MAPKAPK 2, MAPKAPK2, MK2



HeLa cells were subjected to SDS PAGE followed by western blot with 13949-1-AP (MAPKAPK2 antibody) at dilution of 1:1000



Immunohistochemistry of paraffin-embedded human kidney tissue slide using 13949-1-AP (MAPKAPK2 Antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemistry of paraffin-embedded human kidney tissue slide using 13949-1-AP (MAPKAPK2 Antibody) at dilution of 1:50 (under 40x lens)

### Background

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).

### Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, Mouse; other species not tested.
Calculated MAPKAPK2 MW:	400aa, 46 kDa
Observed MAPKAPK2 MW:	47-50 kDa
Positive WB detected in	HeLa cells, A549 cells, mouse colon tissue, mouse skeletal muscle tissue
Positive IHC detected in	Human kidney tissue, human breast cancer tissue
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag5060
GenBank accession number:	BC036060
Gene ID (NCBI):	9261
Full name:	Mitogen-activated protein kinase-activated protein kinase 2

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.