

## MAP3K5

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF 1:20 - 1:100

**Calculated MW:**154kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human MAP3K5

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bi

**Synonym:**

ASK1; MEKK5; MAPKKK5

**Catalog #:**A6274

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**4217

**Isotype:**IgG

**Swiss Prot:**Q99683

**Purity:**Affinity purification

For research use only.

**Background:**

Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK.

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