



MAP3K5 Mouse Monoclonal Antibody

E10-30225

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.

Catalog Number: E10-30225

Amount: 100µg/100µl

Clone Number: 2E4

Species: Mouse IgG1

MW: 55kDa

Aliases: ASK1; MEKK5; MAPKKK5

Entrez Gene: 4217

Immunogen: Purified recombinant fragment of human MAP3K5 expressed in *E. Coli*.

Storage: Store at 4°C, for long term storage, store at -20°C.

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, IF, FC, ELISA. Not yet tested in other applications.

Application notes: WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF: 1/200-1/1000, FC: 1/200 - 1/400, ELISA: Propose dilution 1/10000.

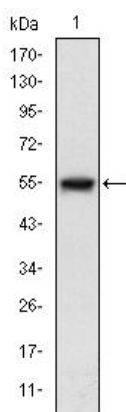


Figure 1: Western blot analysis using MAP3K5 mAb against recombinant protein.

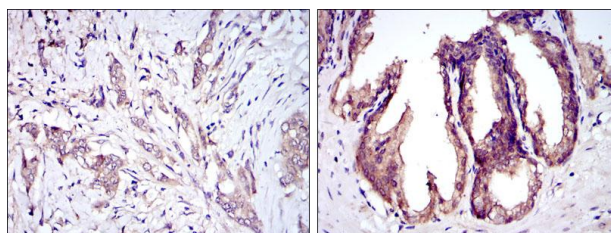
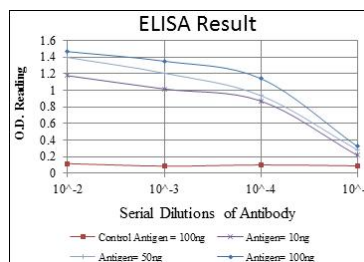


Figure 2: Immunohistochemical analysis of paraffin-embedded breast cancer tissues (left) and prostate tissues (right) using MAP3K5 mouse mAb with DAB staining.



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