



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to MAP3K5

**Catalog Number:** MAB-606030225

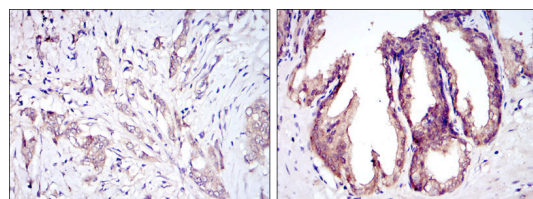
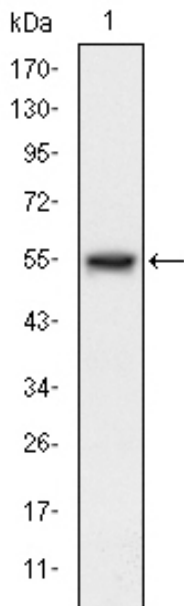


Figure 2: Immunohistochemical analysis of paraffin-embedded breast cancer tissues (left) and prostate tissues (right) using MAP3K5 mouse mAb with DAB staining.

Lot#:  
Clone#: 2E4  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW: 55kDa  
Aliases: ASK1; MEKK5;  
MAPKKK5  
Entrez Gene: 4217  
Species reactivity: Human

**Description** 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.

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

**Application** Western Blotting: 1/500 - 1/2000.  
Immunohistochemistry: 1/200 - 1/1000.  
Immunofluorescence: 1/200 - 1/1000.  
Flow cytometry: 1/200 - 1/400.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

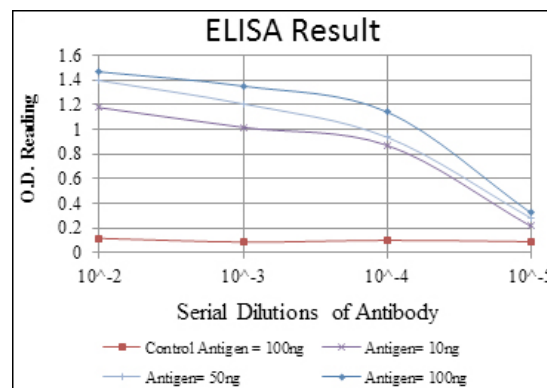
**Formulation** Ascitic fluid containing 0.03% sodium azide.

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

**Related product**

#### References

1. Mol Cancer. 2009 Dec 27;8:130.
2. J Biol Chem. 2009 Oct 30;284(44):30372-82.



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