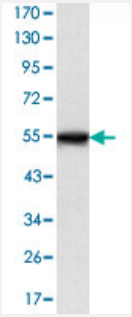
MAP3K5 monoclonal antibody, clone 2E4

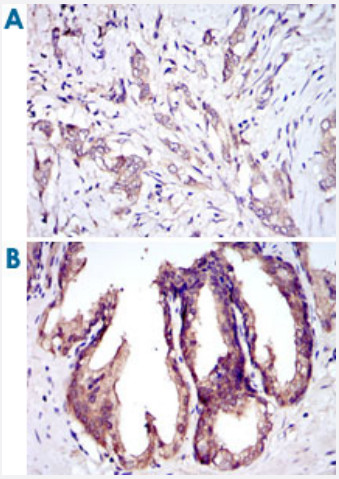
Catalog # MAB10798 Size 100 uL

Applications



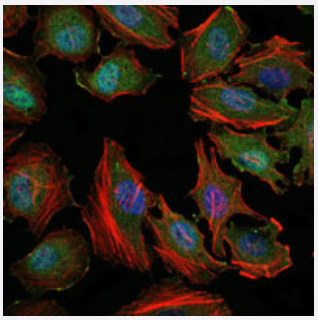
Western Blot (Recombinant protein)

Western blot analysis using MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798) against human MAP3K5 (aa: 922-1108) recombinant protein. (Expected MW is 46.5 kDa)



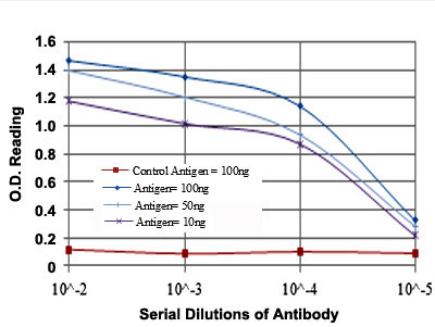
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissues (A) and prostate tissues (B) using MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798) with DAB staining.



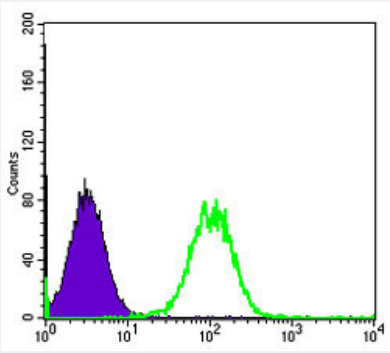
Immunofluorescence

Immunofluorescence analysis of HeLa cells using MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Enzyme-linked Immunoabsorbent Assay

ELISA measurement of MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798).



Flow Cytometry

Flow cytometric analysis of HeLa cells using MAP3K5 monoclonal antibody, clone 2E4 (Cat # MAB10798) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant MAP3K5.
Immunogen	Recombinant protein corresponding to human MAP3K5.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — MAP3K5

Entrez GeneID	4217
Gene Name	MAP3K5
Gene Alias	ASK1, MAPKKK5, MEKK5
Gene Description	mitogen-activated protein kinase kinase kinase 5
Omim ID	602448
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq
Other Designations	MAP/ERK kinase kinase 5|MAPK/ERK kinase kinase 5|OTTHUMP00000017275|apoptosis signal regulating kinase

Pathway

- Amyotrophic lateral sclerosis (ALS)
- MAPK signaling pathway
- Neurotrophin signaling pathway

Disease

- Asthma
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypersensitivity
- Inflammation
- Insulin Resistance
- Lymphoma
- Tobacco Use Disorder