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Product datasheet for TA500411

MEK4 (MAP2K4) Mouse Monoclonal Antibody [Clone ID: OTI4B4]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI4B4

Applications: FC, IF, IHC, IP, WB

Recommend Dilution: WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100, IP 2ug/500ul

Reactivity: Human
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Full-length protein expressed in 293T cell transfected with human MAP2K4 expression vector

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1.09 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Predicted Protein Size: 44.3 kDa

Gene Name: mitogen-activated protein kinase kinase 4

Database Link: NP 003001 Entrez Gene 6416 Human

Background: This gene encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase

family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK3. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver.

Synonyms: JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI

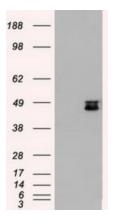
signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor

signaling pathway

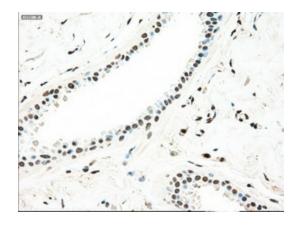




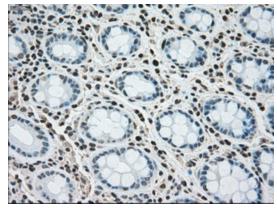
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MAP2K4 ([RC206051], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAP2K4. Positive lysates [LY401058] (100ug) and [LC401058] (20ug) can be purchased separately from OriGene.

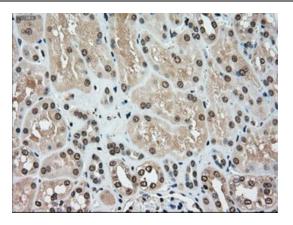


Immunohistochemical staining of paraffinembedded Human breast tissue within the normal limits using anti-MAP2K4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500411)

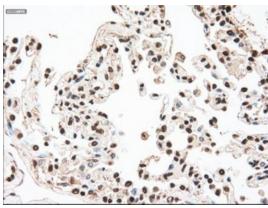


Immunohistochemical staining of paraffinembedded Human colon tissue within the normal limits using anti-MAP2K4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500411)

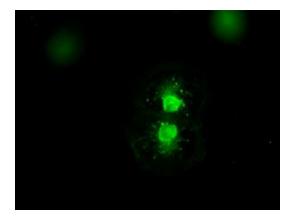




Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-MAP2K4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500411)

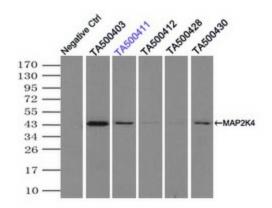


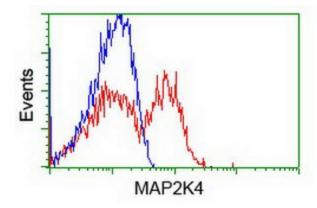
Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-MAP2K4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500411)



Anti-MAP2K4 mouse monoclonal antibody (TA500411) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MAP2K4 ([RC206051]).







Immunoprecipitation (IP) of MAP2K4 by using TrueMab monoclonal anti-MAP2K4 antibodies (Negative control: IP without adding anti-MAP2K4 antibody.). For each experiment, 500ul of DDK tagged MAP2K4 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-MAP2K4 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.

HEK293T cells transfected with either [RC206051] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MAP2K4 antibody (TA500411), and then analyzed by flow cytometry.