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Anti-MKK5 (Phospho-S311) Antibody

Catalog # AP61123

Product Information

Application	WB, IF/IC
Primary Accession	Q13163
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50112

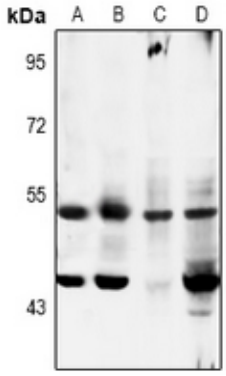
Additional Information

Gene ID	5607
Other Names	MEK5; MKK5; PRKMK5; Dual specificity mitogen-activated protein kinase kinase 5; MAP kinase kinase 5; MAPKK 5; MAPK/ERK kinase 5; MEK 5
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S311 of human MKK5 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

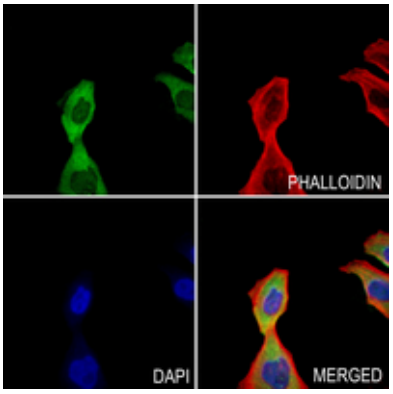
Protein Information

Name	MAP2K5
Synonyms	MEK5, MKK5, PRKMK5
Function	Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis. As part of the MAPK/ERK signaling pathway, acts as a negative regulator of apoptosis in cardiomyocytes via promotion of STUB1/CHIP-mediated ubiquitination and degradation of ICER-type isoforms of CREM (By similarity).
Tissue Location	Expressed in many adult tissues. Abundant in heart and skeletal muscle

Images



Western blot analysis of MKK5 (Phospho-S311) expression in mouse heart (A), rat heart (B), H1792 (C), MCF7 (D) whole cell lysates. (Predicted band size: 50 kD; Observed band size: 50; 46 kD)



Immunofluorescent analysis of MKK5 (Phospho-S311) staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.