

Anti-MEKK2 Antibody

Catalog # ABO10818

Product Information

Application	WB
Primary Accession	Q9Y2U5
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase kinase 2(MAP3K2) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10746
Other Names	Mitogen-activated protein kinase kinase kinase 2, 2.7.11.25, MAPK/ERK kinase kinase 2, MEK kinase 2, MEKK 2, MAP3K2, MAPKKK2, MEKK2
Calculated MW	69741
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm . Nucleus . Upon EGF stimulation, translocates into the nucleus.
Source	Eukaryota
Protein Name	Mitogen-activated protein kinase kinase kinase 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MEKK2(606-619aa SADELLRHMFVHYH), different from the related rat and mouse sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family.

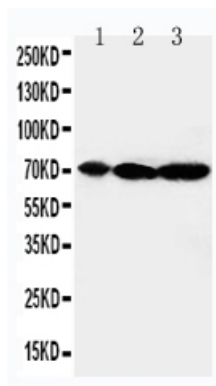
Protein Information

Name	MAP3K2
Synonyms	MAPKKK2, MEKK2
Function	Component of a protein kinase signal transduction cascade. Regulates the JNK and ERK5 pathways by phosphorylating and activating MAP2K5 and MAP2K7 (By similarity). Plays a role in caveolae kiss-and- run dynamics.
Cellular Location	Cytoplasm. Nucleus. Note=Upon EGF stimulation, translocates into the nucleus

Background

MAP3K2, mitogen-activated protein kinase kinase kinase 2, also known as MEKK2, belongs to the mitogen-activated protein kinase(MAPK) kinase kinase gene family, which is involved in regulating multiple MAPK signaling pathways. Endogenous MAP3K2 localized mainly to the cytosol of unstimulated HeLa cells and rat fibroblasts. The MAP3K2 gene is mapped to chromosome 2 by the International Radiation Hybrid Mapping Consortium. MAP3K2 is a major upstream activator of the JNK, MAPK cascade. MAP3K2 was identifies as 1 of 6 kinases that regulate different steps of the caveolar cycle. Silencing of MAP3K2 strongly reduced kiss-and-run dynamics, leading to an accumulation of caveolar structures at the cell surface without affecting caveolae coat assembly or clustering.

Images



Anti-MEKK2 antibody, ABO10818, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Testis Tissue Lysate
Lane 3: Rat Lung Tissue Lysate

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