

Anti-MEK1 Antibody

Catalog # ABO10700

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q02750
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Dual specificity mitogen-activated protein kinase kinase 1(MAP2K1) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Other Names	Dual specificity mitogen-activated protein kinase kinase 1, MAP kinase kinase 1, MAPKK 1, MKK1, 2.7.12.2, ERK activator kinase 1, MAPK/ERK kinase 1, MEK 1, MAP2K1, MEK1, PRKMK1
Calculated MW	43439 Da
Application Details	Immunocytochemistry , 0.5-1 µg/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, spindle pole body. Cytoplasm. Nucleus. Localizes at centrosomes during prometaphase, midzone during anaphase and midbody during telophase/cytokinesis.
Tissue Specificity	Widely expressed, with extremely low levels in brain. .
Protein Name	Dual specificity mitogen-activated protein kinase kinase 1(MAP kinase kinase 1/)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MEK1(353-367aa KQLMVHAFIKRSDAE), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.

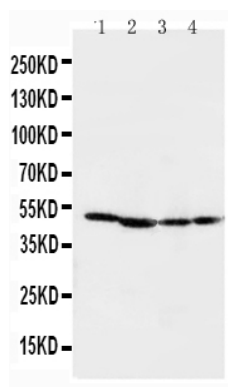
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.

Protein Information

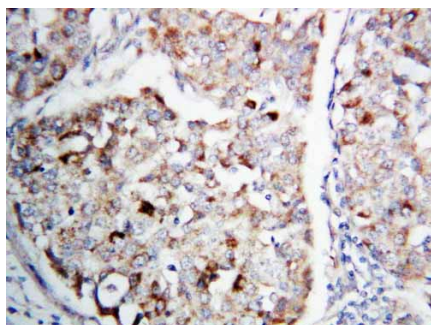
Background

Dual specificity mitogen-activated protein kinase kinase 1 is an enzyme that in humans is encoded by the MAP2K1 gene. The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon activation by a wide variety of extra- and intracellular signals. As an essential component of the MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. Rampoldi et al. (1997) localized the MAP2K1 gene to 15q22.1-q22.33.

Images

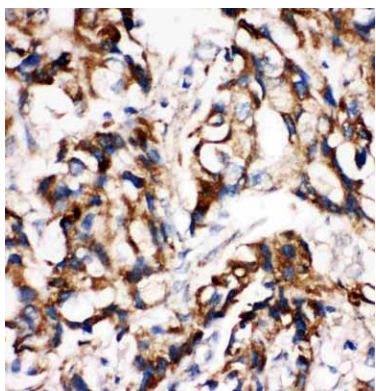


Anti-MEK1 antibody, ABO10700, Western blotting
Lane 1: Rat Skeletal Muscle Tissue Lysate
Lane 2: Rat Kidney Tissue Lysate
Lane 3: CEM Cell Lysate
Lane 4: COLO20 Cell Lysate

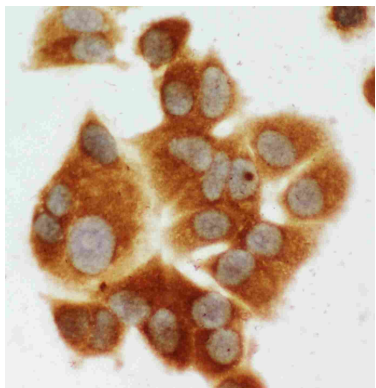


Anti-MEK1 antibody, ABO10700, IHC(P)
IHC(P): Human Lung Cancer Tissue

Anti-MEK1 antibody, ABO10700, IHC(P)
IHC(P): Human Mammary Cancer Tissue



Anti-MEK1 antibody, ABO10700, ICCICC: MCF-7 Cell



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