Anti-MEK-1

Cat #: HM1222
Rabbit polyclonal IgG
0.2 μg/μl, store at 4 °C

For research use only

BACKGROUND
MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. MAP kinase kinases or MEKs are members of the dual specificity protein kinase family, which lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon a wide variety of extra- and intracellular signals. MEK-1 specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. MEK-2 resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK5, whereas MEK-6 phosphorylates p38. MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway. As an essential component of MAP kinase signal transduction pathway, MEK-1 is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.

SPECIFICITY
This antibody reacts with MEK-1 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections).

Recommended dilution for Western blotting: 1:1000. Molecular Weight of MEK-1: 45 kDa. Western blotting positive controls: HeLa cell lysate.

IMMUNOGEN
A peptide mapping at the carboxy terminus of rat MEK-1.

STORAGE
This antibody is stable for 12 months when stored at 2-8°C.

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