**BACKGROUND**

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, 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 Mkk4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK 5, whereas MEK-6 phosphorylates p38 and p38b. MEK-7 (or Mkk7) phosphorylates and activates the JNK signal transduction pathway.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MAP2K6 (human) mapping to 17q24.3; Map2k6 (mouse) mapping to 11E2.

**SOURCE**

MEK-6 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of MEK-6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-1992 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

MEK-6 (N-19) is recommended for detection of MEK-6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MEK-6 (N-19) is also recommended for detection of MEK-6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MEK-6 siRNA (h): sc-35913, MEK-6 siRNA (m): sc-35914, MEK-6 shRNA Plasmid (h): sc-35913-SH, MEK-6 shRNA Plasmid (m): sc-35914-SH, MEK-6 shRNA (h) Lentiviral Particles: sc-35913-V and MEK-6 shRNA (m) Lentiviral Particles: sc-35914-V.

Molecular Weight of MEK-6: 37 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, HeLa whole cell lysate: sc-2200 or MEK-6 (h): 293T Lysate: sc-113820.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.