

Purified Rabbit Anti-MEK1

Catalog Number: TP-363

Lot Number:

Content: Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

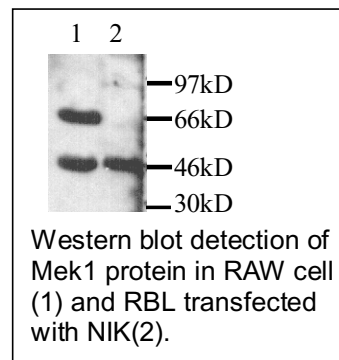
(Reconstitute to 1 mg/ml by adding 200 µl PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with human and mouse MEK1, was generated using E.coli-expressed mouse full-length MEK1 as an immunogen. The antibody has been tested on Western blotting and immunoprecipitation assays. Suggested dilution: 1:2000.

Cross-reactivity to other kinases has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: MEK1 is one of the MEKs that are upstream of the MAPK ERK1/2. MEK1 is a dual-specific protein kinase that phosphorylates ERK1/2 on both threonine and tyrosine residues in the sequence TEY. Phosphorylation of these residues dramatically activates ERK1/2,



which then phosphorylate their downstream substrate. MEK1 contains 393 amino acids and has a calculated molecular weight of 43,470. MEK1 itself is regulated by phosphorylation by one of the MEK kinases.

References:

1. Crews, C.M., Alessandrini, A. and Erikson, R.L. (1992) The primary structure of MEK, a protein kinase that phosphorylates the ERK gene product. *Science* 258:478-80.
2. MacDonald SG, et al. (1993) Reconstitution of the Raf-1-MEK-ERK signal transduction pathway in vitro. *Mol Cell Biol.* 13:6615-20.
3. Dhanasekaran, N. et al. (1998) Signaling by dual specificity kinases. *Oncogene* 17:1447-55.
4. English, J. et al. (1999) New insights into the control of MAP kinase pathways. *Exp. Cell Res.* 253:255-70.