PRODUCT INFORMATION

MEK1 (Phospho-Thr^{386}) Polyclonal Antibody

Item No. 10009517

Overview and Properties

Contents:	This vial contains 100 µl affinity-purified antibody in 10 mM HEPES, pH 7.5, containing 150 mM NaCl, 100 µg/ml BSA, and 50% glycerol.
Synonyms:	MAP Kinase Kinase 1, MAPKK1, Mitogen-activated Protein Kinase Kinase 1
Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding Phospho-Thr^{386} of human MEK1
Cross Reactivity:	(+) Rat MEK1; expected to react with bovine, canine, chicken, mouse, non-human primates, and *Xenopus* MEK1
Storage:	-20°C (as supplied)
Stability:	≥1 year
Host:	Rabbit
Applications:	Western blot (WB); the recommended starting dilution for WB is 1:1,000.

Description

MAP kinase kinase 1 (MEK1) is an integral component of the MAP kinase cascade that regulates cell growth and differentiation.[1,2] This pathway also plays a key role in synaptic plasticity in the brain.[3] Activated MEK1 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase.[4-6] Conversely, there also appears to be a feedback phosphorylation of MEK1 by MAP kinase. The sites on MEK1 that are phosphoylated by MAP kinase are Thr^{292} and Thr^{386}.[7]

References

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