

Basic Information

Product Name	Anti-MEK1/MAP2K1 (Phospho-T292) Antibody (Clone#HCG-13)
Gene Name	MAP2K1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human MEK1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	45 kDa
Dilution Ratios	Western blot (WB):1:500-2000

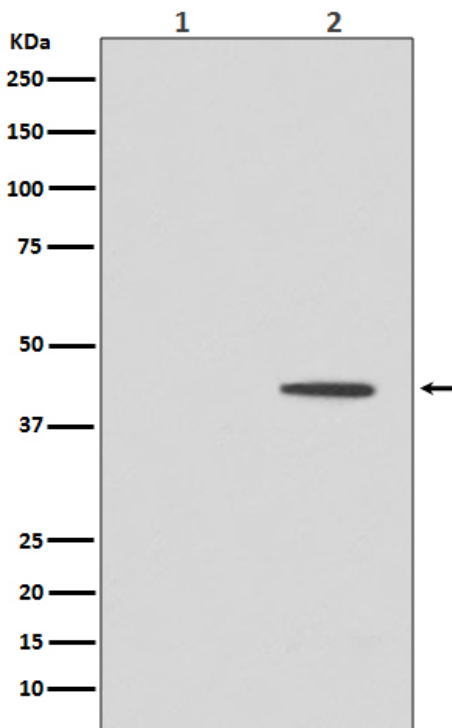
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

Selected Validation Data



Western blot analysis of MEK5 expression in (1) HeLa cell lysate; (2) HeLa cell treated with Nocodazole.