

Anti-Phospho-MAP3K1 (T1402) Antibody

Catalog Number: P01972

About MAP3K1

MAP3K1(Mitogen-activated protein kinase kinase kinase 1), also known as MEKK1, MAPKKK1, MEK KINASE or MAP/ERK KINASE KINASE 1, is an enzyme that in humans is encoded by the MAP3K1 gene. Vinik et al.(1995) identified DNA sequence and size polymorphisms in intronic and 3-prime untranslated regions of the mouse Map3k1 gene and the human MAP3K1 homolog. Using these allele-specific polymorphisms, they mapped the Map3k1 gene in an intersubspecific backcross to mouse chromosome 13. They mapped the human MAP3K1 gene to chromosome 5 by somatic cell hybrid analysis. By assaying transfected COS-1 cells, Xia et al.(1998) showed that human MEKK1 activated JNK1(MAPK8) robustly and p38-alpha(MAPK14) less efficiently, but it had only a marginal effect on ERK2(MAPK1). MEKK1 directly and specifically interacted with JNKK1(MAP2K4) and activated JNKK1 in cells and in vitro. Phosphorylation of JNKK1 by MEKK1 disrupted their interaction. MEKK1 and JNK1 competed for binding to JNKK1. Xia et al.(1998) concluded that JNKK1 is the preferred MEKK1 substrate.

Overview

Product Name	Anti-Phospho-MAP3K1 (T1402) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-MAP3K1 (T1402) Antibody catalog # P01972. Tested in WB, IHC, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q13233

Technical Details

Immunogen	A synthesized peptide derived from human MEKK1 around the phosphorylation site of Thr1402.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.

Suggested Dilutions

Western blot, 1:500-2000
Immunohistochemistry, 1:50-200
Immunocytochemistry/Immunofluorescence, 1:50-200

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