

MAP3K7 (Phospho-Thr187) Antibody

Catalog No: #11899



Package Size: #11899-1 50ul #11899-2 100ul

Orders: order@signalwayantibody.com

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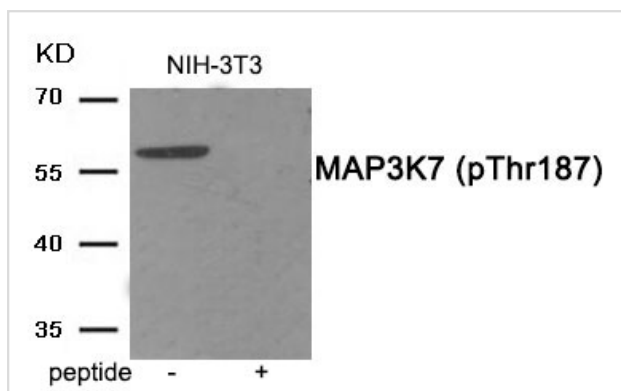
Description

Product Name	MAP3K7 (Phospho-Thr187) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of IMAP3K7 only when phosphorylated at threonine 187.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 187 (H-M-T(p)-N-N) derived from Human MAP3K7.
Target Name	MAP3K7
Modification	Phospho
Other Names	M3K7; MAP3K7; Mitogen-activated protein kinase kinase kinase 7; TGF-beta- activated kinase 1; kinase TAK1
Accession No.	Swiss-Prot#: O43318; NCBI Gene#: 6885; NCBI Protein#: NP_003179.1
SDS-PAGE MW	60kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from NIH-3T3 tissue using MAP3K7 (Phospho-Thr187) antibody #11899. The lane on the right is treated with the antigen-specific peptide.

Background

Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signal transduction of TRAF6, various cytokines including interleukin-1 (IL-1), transforming growth factor-beta (TGFB), TGFB-related factors like BMP2 and BMP4, toll-like receptors (TLR), tumor necrosis factor receptor CD40 and B-cell receptor (BCR). Ceramides are also able to activate MAP3K7/TAK1. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K1/MEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7.

Shin MS, et al. (2009) *Biochim Biophys Acta* 1793, 1156-64

Liu Q, Busby JC, Molkenin JD (2009) *Nat Cell Biol* 11, 154-61

Kim SI, Kwak JH, Wang L, Choi ME (2008) *J Biol Chem* 283, 10753-63

Note: This product is for in vitro research use only and is not intended for use in humans or animals.