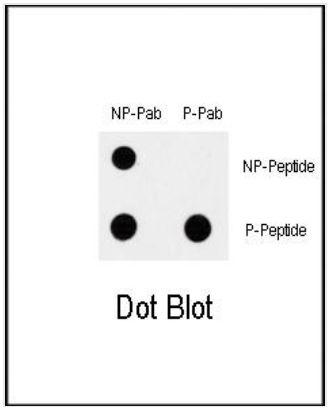
MAP3K7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MAP3K7, Polyclonal Antibody
Full Product Name	MAP3K7, Phosphorylated (Ser192) (Mitogen-activated Protein Kinase Kinase Kinase 7, MEKK7, Transforming Growth Factor-beta-activated Kinase 1, TGF-beta-activated Kinase 1, TAK1, TGF1a) (FITC)
Product Gene Name	anti-MAP3K7 antibody
Product Synonym Names	EC=2.7.11.25
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAP3K7 when phosphorylated at Ser192.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	53,740 Da
OMIM	602614
3D Structure	ModBase 3D Structure for O43318
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser192 of human MAP3K7 (KLH).
Conjugate	FITC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MAP3K7 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAP3K7 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-MAP3K7 antibody	FLISA: 1:1,000 Dot Blot: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-MAP3K7 antibody	MBS6487648 is an antibody targeting MAP3K7. Also known as MAP3K7, Phosphorylated (Ser192) (Mitogen-activated Protein Kinase Kinase Kinase 7, MEKK7, Transforming Growth Factor-beta-activated Kinase 1, TGF-beta-activated Kinase 1, TAK1, TGF1a) (FITC). Reactive in Human. Host: Rabbit.

Product References and Citations for anti-MAP3K7 antibody	1. Smit, L., et al., J. Biol. Chem. 279(17):17232-17240 (2004). 2. Ono, K., et al., Biochem. Biophys. Res. Commun. 307(2):332-337 (2003). 3. Sakurai, H., et al., J. Biol. Chem. 278(38):36916-36923 (2003). 4. Cheung, P.C., et al., EMBO J. 22(21):5793-5805 (2003). 5. Edlund, S., et al., Mol. Biol. Cell 14(2):529-544 (2003).
Other Notes	Small volumes of anti-MAP3K7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Dot Blot (DB) of anti-MAP3K7 antibody
Dot blot analysis of Phospho-MAP3K7-S192 polyclonal antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentration was 0.5ug per ml. P-Pab: phospho-antibody; P-Peptide: phospho-peptide; NP-Peptide: non-phospho-peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP3K7. It may not necessarily be applicable to this product.

NCBI GI #	4507361
NCBI GeneID	6885
NCBI Accession #	NP_003179
UniProt Primary Accession #	O43318
UniProt Secondary Accession #	O43317; O43319; Q5TDN2; Q5TDN3; Q5TDT7; Q9NTR3; Q9NZ70; B2RE27; E1P523
UniProt Related Accession #	O43318
GenBank Nucleotide #	NM_003188
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 7 isoform A
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 7
NCBI Official Symbol	MAP3K7
NCBI Official Synonym Symbols	TAK1; MEKK7; TGF1a
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 7
UniProt Synonym Protein Names	Transforming growth factor-beta-activated kinase 1
Protein Family	Mitogen-activated protein kinase kinase kinase
UniProt Gene Name	MAP3K7
UniProt Synonym Gene Names	TAK1; TGF-beta-activated kinase 1
UniProt Entry Name	M3K7_HUMAN
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 7; TGF-beta activated kinase 1; TGF-beta-activated kinase 1; transforming growth factor-beta-activated kinase 1

UniProt Comments for MAP3K7	TAK1: a protein kinase of the MLK family. Mediates signal transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. Also activates MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced isoforms have been reported. Three splice variant isoforms have been described. Protein type: EC 2.7.11.25; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; TKL group; MLK family; TAK1 subfamily Chromosomal Location of Human Ortholog: 6q15 Cellular Component: nucleoplasm; cytoplasm; plasma membrane; endosome membrane; IkappaB kinase complex; cytosol; nucleus Molecular Function: MAP kinase kinase activity; protein serine/threonine kinase activity; protein binding; MAP kinase kinase kinase activity; magnesium ion binding; ATP binding; protein kinase activity Biological Process: positive regulation of JNK activity; I-kappaB kinase/NF-kappaB cascade; activation of MAPKK activity; activation of MAPK activity; apoptosis; stress-activated MAPK cascade; positive regulation of T cell cytokine production; toll-like receptor 3 signaling pathway; T cell receptor signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; transforming growth factor beta receptor signaling pathway; JNK cascade; angiogenesis; toll-like receptor 4 signaling pathway; positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; MyD88-independent toll-like receptor signaling pathway; activation of NF-kappaB-inducing kinase; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interleukin-2 production; toll-like receptor signaling pathway; innate immune response; positive regulation of T cell activation; toll-like receptor 9 signaling pathway; I-kappaB phosphorylation; neural tube formation
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