

MAP3K7 (Phospho-Thr187) Conjugated Antibody

Catalog No: #C11899

Package Size: #C11899-AF350 100ul #C11899-AF405 100ul #C11899-AF488 100ul

#C11899-AF555 100ul #C11899-AF594 100ul #C11899-AF647 100ul

#C11899-AF680 100ul #C11899-AF750 100ul #C11899-Biotin 100ul

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Description

Product Name	MAP3K7 (Phospho-Thr187) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
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.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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
Uniprot	O43318
GeneID	6885;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
SDS-PAGE MW	60kd
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Product Description

Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

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, Molkentin 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