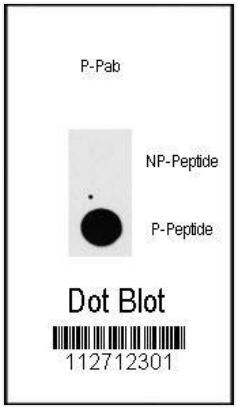
TAB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TAB1, Polyclonal Antibody
Full Product Name	TAB1, Phosphorylated (Ser423) (TGF-beta-activated Kinase 1 and MAP3K7-binding Protein 1, TGF-beta-activated Kinase 1-binding Protein 1, TAK1-binding Protein 1, 3'-Tab1, Mitogen-activated Protein Kinase Kinase Kinase 7-interacting Protein 1, MAP3K7IP1) (FI
Product Gene Name	anti-TAB1 antibody
Product Synonym Names	TGF-beta Activated Kinase 1/MAP3K7 Binding Protein 1; MGC57664
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 Immunoaffinity chromatography.
Specificity	Recognizes human MAP3K7IP1 when phosphorylated at Ser423.
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	49,917 Da
OMIM	602615
3D Structure	ModBase 3D Structure for Q15750
Immunogen	Synthetic phosphopeptide corresponding to the C-terminal of human MAP3K7IP1 (KLH).
Conjugate	FITC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TAB1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-TAB1 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-TAB1 antibody	FLISA: 1:1,000 Dot Blot: 1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-TAB1 antibody	MBS6501934 is an antibody targeting TAB1. Also known as TAB1, Phosphorylated (Ser423) (TGF-beta-activated Kinase 1 and MAP3K7-binding Protein 1, TGF-beta-activated Kinase 1-binding Protein 1, TAK1-binding Protein 1, 3'-Tab1, Mitogen-activated Protein Kinase Kinase Kinase 7-interacting Protein 1, MAP3K7IP1) (FI. Reactive in Human. Host: Rabbit.

Product References and Citations for anti-TAB1 antibody	1. Conner, S.H., Biochem. J. 399(3), 427-434 (2006). 2. Zhou, H., Mol. Cell. Biol. 26(10), 3824-3834 (2006). 3. Singhirunnusorn, P., J. Biol. Chem. 280(8), 7359-7368 (2005). 4. Jin, J., Curr. Biol. 14(16), 1436-1450 (2004).
Other Notes	Small volumes of anti-TAB1 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-TAB1 antibody
Dot blot analysis of anti-MAP3K7IP1-pS423 Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAB1. It may not necessarily be applicable to this product.

NCBI GI #	5174703
NCBI GeneID	10454
NCBI Accession #	NP_006107
UniProt Primary Accession #	Q15750
UniProt Secondary Accession #	Q2PP09; Q8IZW2
UniProt Related Accession #	Q15750
GenBank Nucleotide #	NM_006116.2
NCBI Official Full Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 isoform alpha
NCBI Official Synonym Full Names	TGF-beta activated kinase 1/MAP3K7 binding protein 1
NCBI Official Symbol	TAB1
NCBI Official Synonym Symbols	3'-Tab1; MAP3K7IP1
UniProt Protein Name	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1
UniProt Synonym Protein Names	Mitogen-activated protein kinase kinase kinase 7-interacting protein 1; TGF-beta-activated kinase 1-binding protein 1; TAK1-binding protein 1
Protein Family	TGF-beta-activated kinase 1 and MAP3K7-binding protein
UniProt Gene Name	TAB1
UniProt Synonym Gene Names	MAP3K7IP1; TAK1-binding protein 1
UniProt Entry Name	TAB1_HUMAN
NCBI Protein Information	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1; TAK1-binding protein 1; transforming growth factor beta-activated kinase-binding protein 1; mitogen-activated protein kinase kinase kinase 7-interacting protein 1

NCBI Summary for TAB1	The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for TAB1	TAB1: May be an important signaling intermediate between TGFB receptors and MAP3K7/TAK1. May play an important role in mammalian embryogenesis. Interacts with XIAP and BIRC7. Interacts with TRAF6 and MAP3K7; during IL-1 signaling. Identified in the TRIKA2 complex composed of MAP3K7, TAB1 and TAB2. Ubiquitous. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Activator Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: nucleoplasm; protein complex; cytoplasm; endosome membrane; cytosol Molecular Function: protein binding; mitogen-activated protein kinase p38 binding; enzyme activator activity; kinase activator activity; protein complex binding; catalytic activity Biological Process: heart morphogenesis; I-kappaB kinase/NF-kappaB cascade; in utero embryonic development; activation of MAPK activity; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; transforming growth factor beta receptor signaling pathway; toll-like receptor signaling pathway; activation of MAPKKK activity; innate immune response; JNK cascade; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; lung development
Research Articles on TAB1	**1.** Data indicate that mitogen-activated protein kinase (MAPK) p38 activation is triggered by AMP-activated protein kinases (AMPK) and mediated by TAB1 protein.
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