

TAK1 Antibody | anti-TAK1 antibody

Phospho-TAK1 (Ser192) Antibody

CATALOG # AAA328295	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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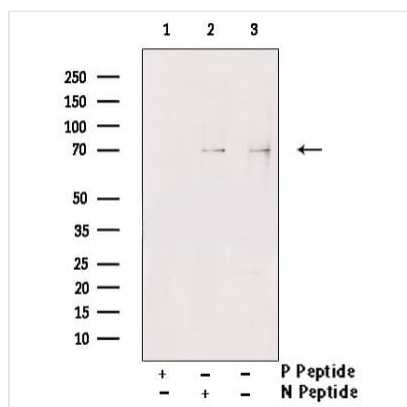
PRODUCT SYNONYMS

TAK1; Phospho-TAK1 (Ser192) Antibody; M3K7_HUMAN; MAP3K 7; Map3k7; MEKK7; Mitogen activated protein kinase kinase kinase 7; Mitogen-activated protein kinase kinase kinase 7; TGF beta activated kinase 1; TGF-beta-activated kinase 1; TGF1a; Transforming growth factor beta activated kinase 1; Transforming growth factor-beta-activated kinase 1; anti-TAK1 antibody

PRODUCT SPECIFICATIONS

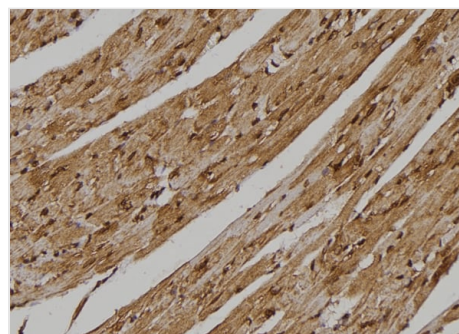
Reactivity	Human, Mouse, Rat
Specificity	Phospho-TAK1 (Ser192) Antibody detects endogenous levels of TAK1 only when phosphorylated at Ser192.
Purity/Purification	Peptide affinity purification
Form/Format	IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Applicable Applications for anti-TAK1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TAK1 around the phosphorylation site of Ser192
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt

IMAGES



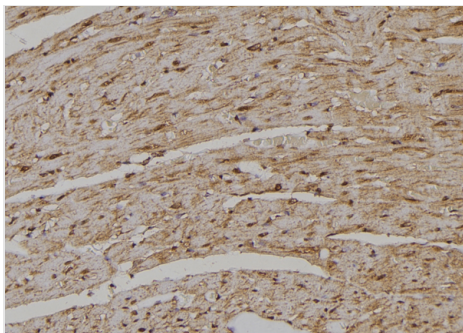
WB (Western Blot)

Western blot analysis of extracts from NIH-3T3, using Phospho-TAK1 (Ser192) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



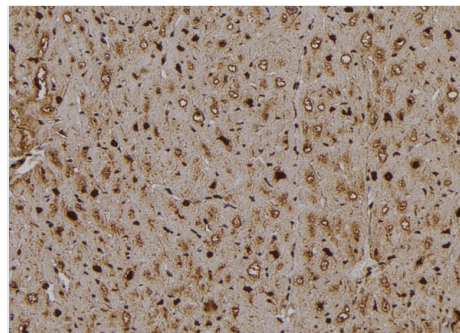
IHC (Immunohistochemistry)

At 1/100 staining mouse heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-TAK1 antibody

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. These MAP2Ks in turn activate p38 MAPKs, c-jun N-terminal kinases (JNKs) and I-kappa-B kinase complex (IKK). Both p38 MAPK and JNK pathways control the transcription factors activator protein-1 (AP-1), while nuclear factor-kappa B is activated by IKK. MAP3K7 activates also IKBKB and MAPK8/JNK1 in response to TRAF6 signaling and mediates BMP2-induced apoptosis. In osmotic stress signaling, plays a major role in the activation of MAPK8/JNK1, but not that of NF-kappa-B. Promotes TRIM5 capsid-specific restriction activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507361
NCBI GeneID	6885
NCBI Accession #	NP_003179.1
NCBI GenBank Nucleotide #	NP_003179.1
UniProt Accession #	O43318
Molecular Weight	Observed: 70 kDa Predicted: 68 kDa
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	CSCF; FMD2; TAK1; MEKK7; TGF1a
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 7
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 7
UniProt Gene Name	MAP3K7
UniProt Synonym Gene Names	TAK1; TGF-beta-activated kinase 1
UniProt Entry Name	M3K7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-mouse-rat-antibody/tak1/328295>