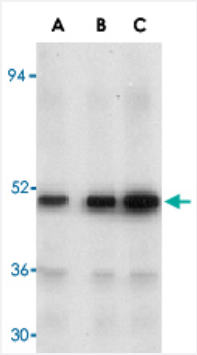
MAP3K7 polyclonal antibody

Catalog # PAB12934 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of MAP3K7 in rat thymus tissue lysate with MAP3K7 polyclonal antibody (Cat # PAB12934) at (A) 1, (B) 2, and (C) 4 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MAP3K7.
Immunogen	A synthetic peptide corresponding to N-terminus 14 amino acids of human MAP3K7.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

- Western Blot (Tissue lysate)

  Western blot analysis of MAP3K7 in rat thymus tissue lysate with MAP3K7 polyclonal antibody (Cat # PAB12934) at (A) 1, (B) 2, and (C) 4 ug/mL .

Gene Info — MAP3K7

Entrez GeneID	6885
Protein Accession#	BAA25025
Gene Name	MAP3K7
Gene Alias	TAK1, TGF1a
Gene Description	mitogen-activated protein kinase kinase kinase 7
Omim ID	602614
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling 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, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	OTTHUMP00000016870|OTTHUMP00000016871|OTTHUMP00000016872|OTTHUMP00000016873|TGF-beta activated kinase 1|transforming growth factor-beta-activated kinase 1

Publication Reference

- Toll-like receptor signalling.

  Akira S, Takeda K.

  Nature Reviews. Immunology 2004 Jul; 4(7):499.

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- Interleukin-1 (IL-1) receptor-associated kinase-dependent IL-1-induced signaling complexes phosphorylate TAK1 and TAB2 at the plasma membrane and activate TAK1 in the cytosol.

  Jiang Z, Ninomiya-Tsuji J, Qian Y, Matsumoto K, Li X.

  Molecular and Cellular Biology 2002 Oct; 22(20):7158.

  Application: IP, WB-Tr, Human, HEK 293 cells

- TAK1 mediates an activation signal from toll-like receptor(s) to nuclear factor-kappaB in lipopolysaccharide-stimulated macrophages.

  Irie T, Muta T, Takeshige K.

  FEBS Letters 2000 Feb; 467(2-3):160.

  Application: WB-Ce, Mouse, RAW 264.7

Pathway

- Adherens junction
- MAPK signaling pathway
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Wnt signaling pathway

Disease

- Arthritis
- Crohn Disease
- Genetic Predisposition to Disease
- Inflammatory Bowel Diseases
- Narcolepsy
- Tobacco Use Disorder

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