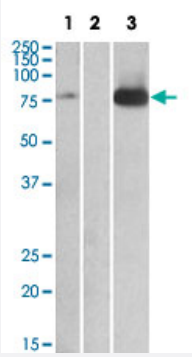
MAP3K7 polyclonal antibody

Catalog # PAB7038 Size 100 ug

Applications



Western Blot (Transfected lysate)

HEK293 lysate (10 ug protein in RIPA buffer) overexpressing human MAP3K7 with DYKDDDDK tag probed with MAP3K7 polyclonal antibody (Cat # PAB7038) (1 ug/mL) in Lane 1 and probed with anti- DYKDDDDK Tag (1/3000) in lane 3. Mock-transfected HEK293 probed with MAP3K7 polyclonal antibody (Cat # PAB7038) (1 mg/mL) in Lane 2. Primary incubations were for 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of MAP3K7.
Immunogen	A synthetic peptide corresponding to internal region of human MAP3K7.
Sequence	C-AELDQDEKDQQNT
Host	Goat
Reactivity	Human
Specificity	This antibody is expected to recognise isoform A (NP_003179.1) and isoform B (NP_663304.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:8000) Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°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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Gene Info — MAP3K7

Entrez GeneID	6885
Protein Accession#	NP_003179.1;NP_663304.1
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 (BM P), and controls a variety of cell functions including transcription regulation and apoptosis. In resp onse to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3 K7P2/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 environm ental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	OTTHUMP00000016870|OTTHUMP00000016871|OTTHUMP00000016872|OTTHUMP000000 16873|TGF-beta activated kinase 1|transforming growth factor-beta-activated kinase 1

Publication Reference

- TAK1 is a master regulator of epidermal homeostasis involving skin inflammation and apoptosis.

  Emily Omori, Kunihiro Matsumoto, Hideki Sanjo, Shintaro Sato, Shizuo Akira, Robert C Smart, Jun Ninomiya-Tsuji.

  The Journal of Biological Chemistry 2006 Jul; 281(28):19610.

  Application: IF, IHC-Fr, IHC-P, WB-Tr, Mouse, Mouse dermal fibroblasts, Mouse keratinocytes, Mouse skin

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