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Product datasheet for TA809633M

TAK1 (MAP3K7) Mouse Monoclonal Antibody [Clone ID: OTI9D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9D2
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 254-367 of human MAP3K7(NP_003179) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	64 kDa
Gene Name:	mitogen-activated protein kinase kinase kinase 7
Database Link:	NP_003179 Entrez Gene 26409 MouseEntrez Gene 313121 RatEntrez Gene 6885 Human O43318

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Background: 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, Jul 2008]

Synonyms: MEKK7; TAK1; TGF1a

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adherens junction, MAPK signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Wnt signaling pathway

Product images:

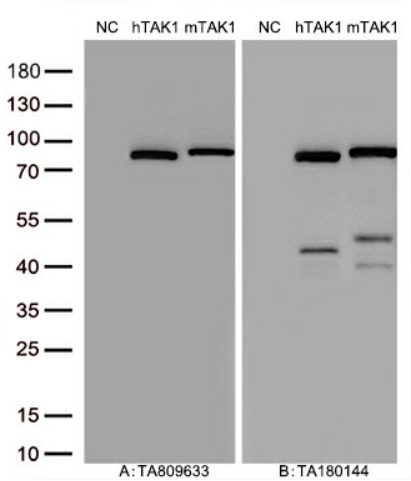
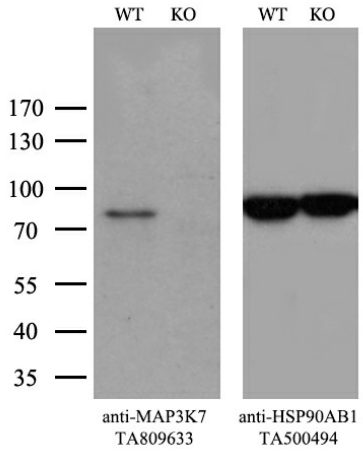


Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human TAK1 plasmid ([RC204454], hTAK1), mouse TAK1 plasmid ([MR209357], mTAK1) using anti-TAK1 antibody [TA809633] (1:5000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:5000).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and MAP3K7-Knockout 293T cells (KO, Cat# [LC810503]) were separated by SDS-PAGE and immunoblotted with anti-MAP3K7 monoclonal antibody [TA809633], (1:100). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.