

Tak1 (phospho Ser439) rabbit pAb**Cat#: orb770214 (Manual)**

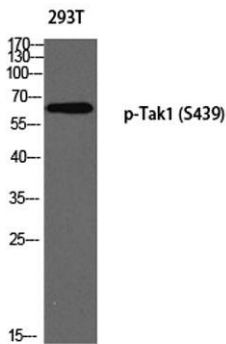
For research use only. Not intended for diagnostic use.

Product Name	Tak1 (phospho Ser439) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MAP3K7 around the phosphorylation site of Ser439. AA range:411-460
Specificity	Phospho-Tak1 (S439) Polyclonal Antibody detects endogenous levels of Tak1 protein only when phosphorylated at S439.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Mitogen-activated protein kinase kinase kinase 7
Gene Name	MAP3K7
Cellular localization	Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Although the majority of MAP3K7/TAK1 is found in the cytosol, when complexed with TAB1/MAP3K7IP1 and TAB2/MAP3K7IP2, it is also localized at the cell membrane.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

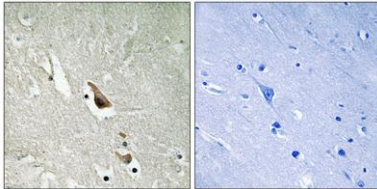
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	77kD
Human Gene ID	6885
Human Swiss-Prot Number	O43318
Alternative Names	MAP3K7; TAK1; Mitogen-activated protein kinase kinase 7; Transforming growth factor-beta-activated kinase 1; TGF-beta-activated kinase 1

Background

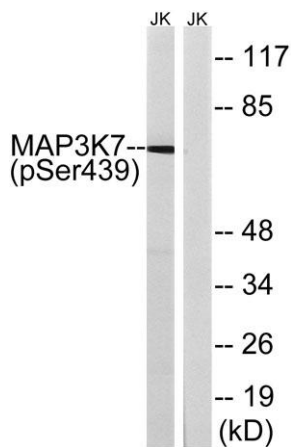
The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, 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],



Western blot analysis of 293T using p-Tak1 (S439) antibody. Antibody was diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain, using MAP3K7 (Phospho-Ser439) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 125ng/ml 30', using MAP3K7 (Phospho-Ser439) Antibody. The lane on the right is blocked with the phospho peptide.