Anti-Phospho-TAK1 (Ser439) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R012079

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	14L92K83
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser439 of human TAK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-TAK1 (Ser439) Rabbit mAb [14L92K83] is for research use only and not for use in diagnostic or therapeutic procedures.

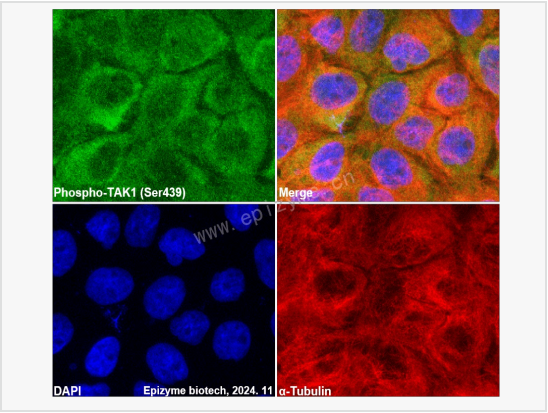
Protein Information

Synonyms	M3K7_HUMAN, MAP3K 7, Map3k7, MEKK7, Mitogen activated protein kinase kinase kinase 7, Mitogen-activated protein kinase kinase kinase 7, TAK1, 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.
Calculated MW	Calculated MW: 78 kDa; Observed MW: 78 kDa
Uniprot ID	O43318
Gene ID	6885
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]

Validation Images



Western Blot - Anti-Phospho-TAK1 (Ser439) Rabbit mAb [14L92K83]
All lanes: R012079 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 78 kDa
Observed band size: 78 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-TAK1 (Ser439) Rabbit mAb [14L92K83]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R012079 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).