

Anti-TAK1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Pig, Cow, Horse, Rabbit, Sheep)
Molecular Weight:	Theoretical: 67 kDa. Actual: 75 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-TAK1/MAP3K7 Polyclonal Antibody, Unconjugated (TMAB-01807) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Blank control: K562. Primary Antibody (green line): Rabbit Anti-TAK1 antibody (TMAB-01807) Dilution: 1 µg/10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Verified Activity: 3. Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TAK1) Polyclonal Antibody, Unconjugated (TMAB-01807) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TAK1) Polyclonal Antibody, Unconjugated (TMAB-01807) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Sample:

Lane 1: MCF-7 (Human) Cell Lysate at 30 µg

Lane 2: Hela (Human) Cell Lysate at 30 µg

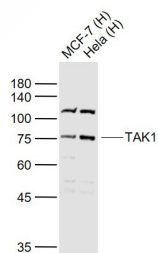
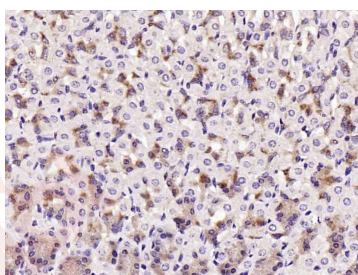
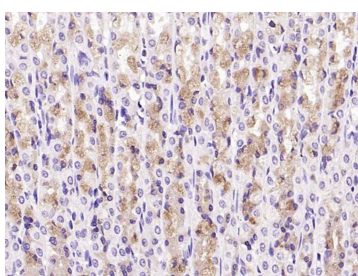
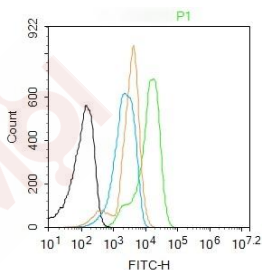
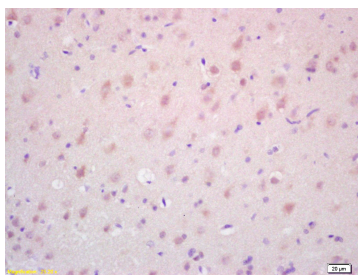
Primary:

Anti-TAK1 (TMAB-01807) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kDa

Observed band size: 75 kDa



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1 μg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated KLH conjugated synthetic peptide: human MAP3K7
Antigen Species:	Human
Gene ID:	6885
Uniprot ID:	O43318
Synonyms:	Map3k7;MAPKKK7;TGF-beta-activated kinase 1;Transforming growth factor-beta-activated kinase 1;Mitogen-activated protein kinase kinase kinase 7;TGF beta activated kinase 1;TGF1a;MEKK7;MAP3K 7;TAK1;M3K7
Biology Area:	Necroptosis,MAPK pathway,Inflammatory mediators,TLR Signaling,MAPK Pathway,Receptor Tyrosine Kinases,NFkB Pathway

Research 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]

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