

**bs-3438R****[ Primary Antibody ]****phospho-TAK1 (Thr187) Rabbit pAb****Bioss**  
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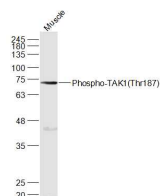
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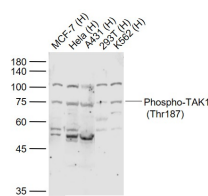
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 6885**SWISS:** O43318**Target:** TAK1 (Thr187)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human TAK1 around the phosphorylation site of Thr187: HM(p-T)NN.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

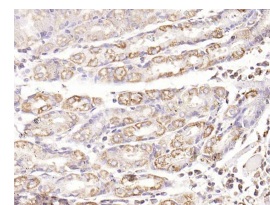
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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]**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Pig, Cow, Chicken, Horse)**Predicted MW.:** 67 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**— VALIDATION IMAGES —**

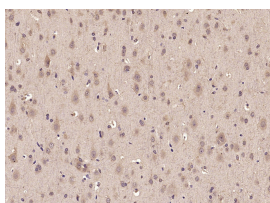
Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-Phospho-TAK1(Thr187) (bs-3438R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 70 kD



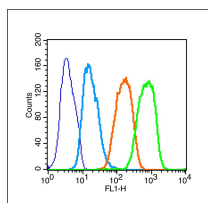
Sample: Lane 1: MCF-7 (Human) Cell Lysate at 30 ug Lane 2: HeLa (Human) Cell Lysate at 30 ug Lane 3: A431 (Human) Cell Lysate at 30 ug Lane 4: 293T (Human) Cell Lysate at 30 ug Lane 5: K562 (Human) Cell Lysate at 30 ug Primary: Anti-Phospho-TAK1 (Thr187) (bs-3438R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: 75 kD



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-TAK1 (Thr187)) Polyclonal Antibody, Unconjugated (bs-3438R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in



Blank control (Black line): Raji (Black). Primary Antibody (green line): Rabbit Anti-Phospho-

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Phospho-TAK1(Thr187)) Polyclonal Antibody, Unconjugated (bs-3438R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.

TAK1(Thr187) antibody (bs-3438R) Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 70% ice-cold methanol overnight at 4°C and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature (The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 20 min on ice.). Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## — SELECTED CITATIONS —

- **[IF=12.2]** Yue Dong. et al. Desulfovibrio vulgaris flagellin exacerbates colorectal cancer through activating LRRC19/TRAF6/TAK1 pathway. GUT MICROBES. 2024 Dec 24 IHC,WB ;Mouse,Human. 39718561
- **[IF=6.1]** Dongxue Song. et al. Purple Sweet Potato Polysaccharide Exerting an Anti-inflammatory Effect via a TLR-Mediated Pathway by Regulating Polarization and Inhibiting the Inflammasome Activation. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX WB ;Mouse. 38233194
- **[IF=4.8]** Yun Sun. et al. Huatanhuoxue Decoction alleviates airway inflammation by regulating IL-17A signaling pathway in obese asthmatic mice. J ETHNOPHARMACOL. 2025 Apr;;119814 WB ;Mouse. 40245963
- **[IF=3.53]** Dvashi Z, Goldberg M, Adir O, Shapira M, Pollack A (2015) TGF-β1 Induced Transdifferentiation of RPE Cells is Mediated by TAK1. PLoS ONE 10(4): e0122229. Other ;="Human". 25849436
- **[IF=3.067]** Zhou G et al. TGF-β1 alleviates HgCl<sub>2</sub> induced apoptosis via P38 MAPK signaling pathway in human trophoblast cells. Toxicol In Vitro. 2019 Aug 13;61:104626. ICC ;Human. 31419505