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## TAK1 Rabbit pAb

Catalog Number: bs-3585R

Target Protein: TAK1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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, Sheep (predicted:Rabbit, Pig, Cow, Chicken, Horse)

Predicted MW: 67 kDa

Entrez Gene: 6885

Swiss Prot: O43318

Source: KLH conjugated KLH conjugated synthetic peptide derived from human MAP3K7:  
521-605/605.

Purification: affinity purified by Protein A

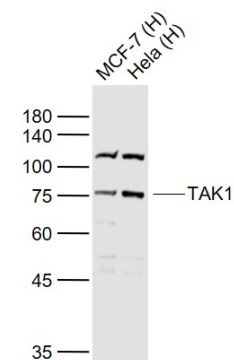
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

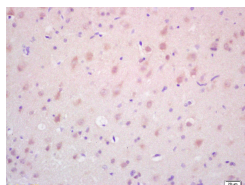
**Background:** The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In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

### VALIDATION IMAGES

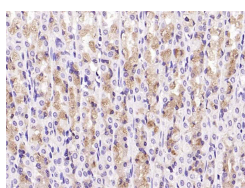
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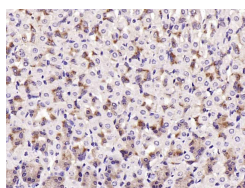
Sample: Lane 1: MCF-7 (Human) Cell Lysate at 30 ug Lane 2: HeLa (Human) Cell Lysate at 30 ug Primary: Anti-TAK1 (bs-3585R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 78 kD Observed band size: 75 kD



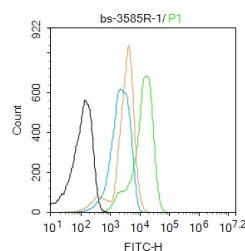
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-TAK1/MAP3K7 Polyclonal Antibody, Unconjugated (bs-3585R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) 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 (TAK1) Polyclonal Antibody, Unconjugated (bs-3585R) 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 (mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) 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 (TAK1) Polyclonal Antibody, Unconjugated (bs-3585R) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) (sp-0023) instructions and DAB staining.



Blank control: K562. Primary Antibody (green line): Rabbit Anti-TAK1 antibody (bs-3585R) Dilution: 1 µg / 10<sup>6</sup> 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 (10min 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. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=16.988] Wu Yutong. et al. Osteoclast-Derived Apoptotic Bodies Inhibit Naive Cd8<sup>+</sup> T Cell Activation via Siglec15 Promoting Breast Cancer Secondary Metastasis. Cell Reports Medicine. 2022 Nov 03 WB,IHC ; Mouse . 37607544

[IF=5.23] Zhao, Yong, et al. "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT Related Pathways." Scientific Reports 6 (2016): 37884. WB ; "Pig" . 27883089

[IF=5.195] Yuxi Liang. et al. The crude extract from the flowers of Trollius chinensis Bunge exerts anti-influenza virus effects through modulation of the TLR3 signaling pathway. J ETHNOPHARMACOL. 2023 Jan;300:115743 WB ; Mouse . 36152783

[IF=5.156] Li, Muzhe. et al. Effects of adenovirus-mediated knockdown of IRAK4 on synovitis in the osteoarthritis rabbit model. Arthritis Res Ther. 2021 Dec;23(1):1-12 WB ; Rabbits . 34863246

[IF=3.85] Wang, Yandi, et al. "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis."

