

**bs-6368R****[ Primary Antibody ]****Caspase-1 p20 Rabbit pAb****BioSS**  
**ANTIBODIES**

www.bioss.com.cn

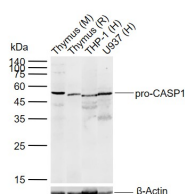
sales@bioss.com.cn

techsupport@bioss.com.cn

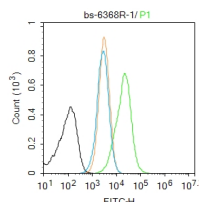
400-901-9800

**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 834**SWISS:** P29466**Target:** Caspase-1 p20**Immunogen:** KLH conjugated synthetic peptide derived from human Caspase-1 p20: 188-290/404.**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:** This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing of this gene results in five transcript variants encoding distinct isoforms. [provided by RefSeq].**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 20/46 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Thymus tissue lysates  
 Lane 2: Rat Thymus tissue lysates Lane 3: Human THP-1 cell lysates Lane 4: Human U937 cell lysates  
 Primary: Anti-Caspase-1 p20 (bs-6368R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 20/46 kDa Observed band size: 50 kDa



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-Caspase-1 p20 antibody (bs-6368R) Dilution: 1μg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /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.

**— SELECTED CITATIONS —**

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

- **[IF=7.919]** Chen Y et al. A selected small molecule prevents inflammatory osteolysis through restraining osteoclastogenesis by modulating PTEN activity Clin Transl Med.2020.Dec;10(8):e240. WB ;Mouse. 33377656
- **[IF=8.039]** Yifan Zhu. et al. Discovery of Selective P2Y6R Antagonists with High Affinity and In Vivo Efficacy for Inflammatory Disease Therapy. J MED CHEM. 2023;XXXX(XXX):XXX-XXX WB ;Mouse. 37078976
- **[IF=4.858]** Kun Hao. et al. Targeting BRD4 prevents acute gouty arthritis by regulating pyroptosis. Int J Biol Sci. 2020; 16(16): 3163–3173 WB ;Rat, Human. 33162822
- **[IF=3.06]** Zhang, Bo, et al. "Cortistatin inhibits NLRP3 inflammasome activation of cardiac fibroblasts during sepsis." Journal of Cardiac Failure (2015). WB ;="Rat". 25639691
- **[IF=3.361]** Yang X et al. HJ22, a Novel derivative of piperine, Attenuates ibotenic acid-induced cognitive impairment, oxidativestress, apoptosis and inflammation via inhibiting the protein-protein interaction of Keap1-Nrf2. Int Immunopharmacol. 2020 Mar 16;83:106383. IHC,WB ;rat. 32193099