bs-0169R **[Primary Antibody]**

Caspase-1 P10 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 834 **SWISS:** P29466

Target: Caspase-1 P10

Immunogen: KLH conjugated synthetic peptide derived from human Caspase-1: 320-404/404.

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].

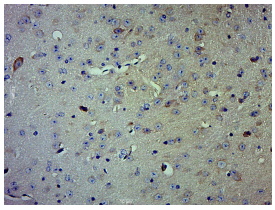
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat

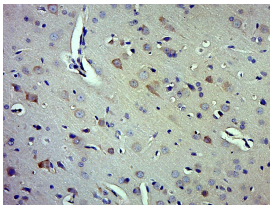
Predicted MW.: 10/45 kDa

Subcellular Location: Cytoplasm

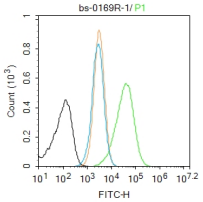
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (Caspase-1 P10) Polyclonal Antibody, Unconjugated (bs-0169R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (Caspase-1 P10) Polyclonal Antibody, Unconjugated (bs-0169R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-Caspase-1 P10 antibody (bs-0169R) Dilution: 1µg /10^6 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

- **[IF=14.026]** Congcong Chen. et al. Radix Paeoniae Alba attenuates Radix Bupleuri-induced hepatotoxicity by modulating gut microbiota to alleviate the inhibition of saikosaponins on glutathione synthetase. J PHARM ANAL. 2023 Apr;: WB ;Rat. 10.1016/j.jpha.2023.04.016
- **[IF=12.779]** Marques-da-Silva, Camila. et al. AIM2 sensors mediate immunity to Plasmodium infection in hepatocytes. P NATL ACAD SCI USA. 2023 Jan;120(2):e2210181120 WB ;Human. 36595704
- **[IF=10.7]** Lin Gan. et al. Chondroitin sulfate modulates oxidative stress and inflammation in the substantia nigra via gut microbiota regulation: Mechanistic insights into Parkinson's disease treatment. CARBOHYD POLYM. 2024 Oct;:122874 WB ;Mouse. 10.1016/j.carbpol.2024.122874
- **[IF=10.383]** Zhen Xu. et al. Green Biosynthesis of Silver Nanoparticles Using Aqueous Extracts of Ageratum Conyzoides and Their Anti-Inflammatory Effects. ACS APPL MATER INTER. 2023;XXXX(XXX):XXX-XXX WB ;Mouse,Human. 36881383
- **[IF=10.383]** Zhen Xu. et al. Green Biosynthesis of Silver Nanoparticles Using Aqueous Extracts of Ageratum Conyzoides and Their Anti-Inflammatory Effects. ACS APPL MATER INTER. 2023;XXXX(XXX):XXX-XXX WB ;Mouse,Human. 36881383