

bs-10743R**[Primary Antibody]**

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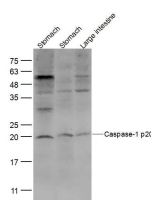
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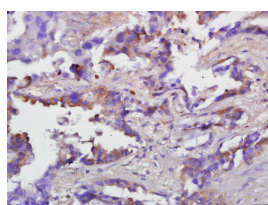
400-901-9800

Caspase-1 p20 Rabbit pAb**— DATASHEET —**

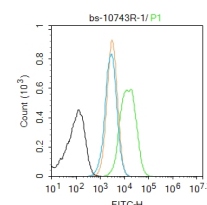
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1 μ g/Test) Reactivity: Human, Mouse, Rat Predicted MW.: 20/46 kDa Subcellular Location: Cytoplasm
Clonality: Polyclonal		
GeneID: 834	SWISS: P29466	
Target: Caspase-1 p20		
Immunogen: KLH conjugated synthetic peptide derived from human Caspase-1 p20: 101-200/404.		
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].		

— VALIDATION IMAGES —

Sample: Stomach (Mouse) Lysate at 40 μ g
 Stomach (Rat) Lysate at 40 μ g Large intestine (Rat) Lysate at 40 μ g
 Primary: Anti- Caspase-1 p20 (bs-10743R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 20/46 kD
 Observed band size: 20 kD



Paraformaldehyde-fixed, paraffin embedded (Human lung cancer); 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 p20) Polyclonal Antibody, Unconjugated (bs-10743R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-Caspase-1 p20 antibody (bs-10743R) Dilution: 1 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1 μ g /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=11.205]** Yingchun Luo. et al. Akkermansia muciniphila prevents cold-related atrial fibrillation in rats by modulation of TMAO induced cardiac pyroptosis. EBIOMEDICINE. 2022 Aug;82:104087 FCM ;Rat. 35797768
- **[IF=8.8]** Jiajun Chen. et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. J PHARM ANAL. 2023 Aug;: WB ;Rat. 10.1016/j.jpha.2023.08.008
- **[IF=6.543]** Cheng Quancheng. et al. Aquaporin 9 Represents a Novel Target of Chronic Liver Injury That May Antagonize Its Progression by Reducing Lipotoxicity. Oxid Med Cell Longev. 2021;2021:5653700 IF ;Mouse. 34659635
- **[IF=5.984]** Adrienne F. Pike. et al. α -Synuclein evokes NLRP3 inflammasome - mediated IL - 1 β secretion from primary human microglia. Glia. 2021 Jan 28 IF ;Mouse. 33506583
- **[IF=6.025]** Xuliang Zhang. et al. PINK1/Parkin-mediated mitophagy mitigates T-2 toxin-induced nephrotoxicity. FOOD CHEM TOXICOL. 2022 Jun;164:113078 WB ;Mouse. 35489469