

**bs-20449R****[ Primary Antibody ]****BioSS**  
**ANTIBODIES**

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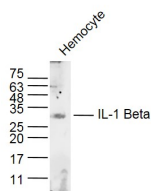
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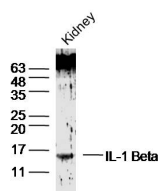
400-901-9800

**IL-1 Beta Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Bee)
<b>GeneID:</b> 3553	<b>SWISS:</b> P01584	
<b>Target:</b> IL-1 Beta		<b>Predicted MW.:</b> 17/32 kDa
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human IL-1 Beta: 181-269/269.		<b>Subcellular Location:</b> Secreted
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008].		

**— VALIDATION IMAGES —**

Sample: Hemocyte (Mouse) Lysate at 40 ug  
Primary: Anti-IL-1 Beta (bs-20449R) at 1/300  
dilution Secondary: IRDye800CW Goat Anti-  
Rabbit IgG at 1/20000 dilution Predicted band  
size: 17 kD Observed band size: 30 kD



Sample: Kidney (Mouse) Lysate at 40 ug Primary:  
Anti-IL-1 Beta (bs-20449R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 17kD  
Observed band size: 16kD

**— SELECTED CITATIONS —**

- **[IF=6.533]** Hui He. et al. Patchouli alcohol ameliorates depression-like behaviors through inhibiting NLRP3-mediated neuroinflammation in male stress-exposed mice. J AFFECT DISORDERS. 2023 Jan;; WB ;Mouse. 36682696
- **[IF=6.9]** Wuping Tan. et al. Celastrol exerts antiarrhythmic effects in chronic heart failure via NLRP3/Caspase-1/IL-1 $\beta$  signaling pathway. BIOMED PHARMACOTHER. 2024 Aug;177:117121 WB ;Rat. 39002443
- **[IF=7.233]** Chen X et al. A photothermal-triggered nitric oxide nanogenerator combined with siRNA for precise therapy of osteoarthritis by suppressing macrophage inflammation.Nanoscale. 2019 Apr 4;11(14):6693-6709. IHC,IF ;Mouse. 30900717
- **[IF=7.097]** Chuping Zheng. et al. The cellular immunotherapy of integrated photothermal anti-oxidation Pd-Se nanoparticles in inhibition of the macrophage inflammatory response in rheumatoid arthritis. Acta Pharm Sin B. 2021 Mar;;

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

IF,IHC ;Mouse. 10.1016/j.apsb.2021.02.021

- **[IF=5.8]** Wang Xiaoyu. et al. Toxic effects of copper on duck cerebrum: a crucial role of oxidative stress and endoplasmic reticulum quality control. ENVIRON SCI POLLUT R. 2023 Aug;;1-12 WB ;Duck. 37606779