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## IL-1 Beta Rabbit pAb

Catalog Number: bs-20448R

Target Protein: IL-1 Beta

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Human, Mouse (predicted:Rat, Rabbit, Dog, Bee)

Predicted MW: 17/32 kDa

Entrez Gene: 3553

Swiss Prot: P01584

Source: KLH conjugated synthetic peptide derived from human IL-1 Beta: 151-250/269.

Purification: affinity purified by Protein A

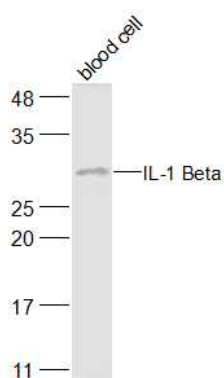
Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.

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

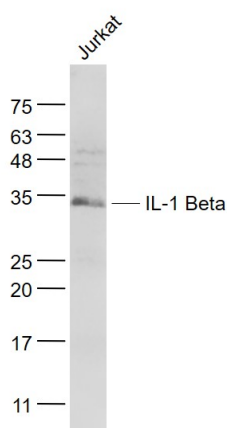
**Background:** The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory 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

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Sample: Blood Cell (Mouse) Lysate at 40 ug Primary: Anti-IL-1 Beta (bs-20448R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD



Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti- IL-1 Beta (bs-20448R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 31 kD

## PRODUCT SPECIFIC PUBLICATIONS

[IF=3.234] Zhang H et al. FcγRI (CD64) contributes to the severity of immune inflammation through regulating NF-κB/NLRP3 inflammasome pathway. Life Sci. 2018 Aug 15;207:296-303. WB ; Mouse&Human . 29920250

[IF=3.177] Peng Gao. et al. The role of maternal-foetal interface inflammation mediated by NLRP3 inflammasome in the pathogenesis of recurrent spontaneous abortion. Placenta. 2020 Nov;101:221 WB ; Human . 33022545

[IF=2.9] Xinting Zhang. et al. Insulin combined with N-acetylcysteine attenuates type 1 diabetes-induced splenic inflammatory injury in canines by inhibiting the MAPKs-NF-κB signaling pathway and pyroptosis. J DIABETES COMPLICAT. 2024 Jul;:108805 WB ; Dog . 39089052

[IF=1.879] Guangdi Li. et al. The relationship between abnormal Core binding factor-β expression in human cartilage and osteoarthritis. BMC Musculoskel Dis. 2021 Dec;22(1):1-13 WB ; Human . 33573620

[IF=1.9] Xi-Kun Yuan. et al. Effects of Life-Long Exercise on Age-Related Inflammation, Apoptosis, Oxidative Stress, Ferroptosis Markers, and NRF2/KAEP 1/Klotho Pathway in Rat Kidneys. PHYSIOL RES. 2024 Aug 31;73(4):577-591 WB ; Rat . 39264079