

IL-1 Beta Rabbit pAb

Catalog Number: bs-20449R

Target Protein: IL-1 Beta

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

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

Predicted MW: 17/32 kDa

Entrez Gene: 3553

Swiss Prot: P01584

Source: KLH conjugated synthetic peptide derived from human IL-1 Beta: 181-269/269.

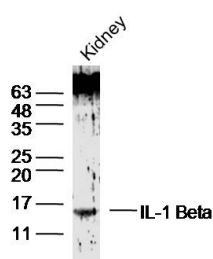
Purification: affinity purified by Protein A

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

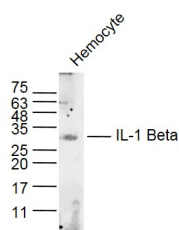
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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



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



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

PRODUCT SPECIFIC PUBLICATIONS

[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 β 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;; 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