bs-6319R **[Primary Antibody]**

IL-1 Beta Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3553 **SWISS:** P01584

Target: IL-1 Beta

Immunogen: KLH conjugated synthetic peptide derived from human IL-1 Beta: 161-269/269.

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: 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].

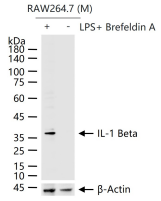
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Bee)

Predicted MW.: 17/32 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



RAW264.7 (M) cells were treated with or without LPS (100ng/ml) for 6 h, then with Brefeldin A (300ng/ml) added after 3 h, 25 µg total protein per lane of cell lysates (see on figure) probed with IL-1 Beta polyclonal antibody, unconjugated (bs-6319R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=16]** Yu-Han Lin. et al. The Bacterial Outer Membrane Vesicle-Cloaked Immunostimulatory Nanoplatform Reinvigorates T Cell Function and Reprograms Tumor Immunity. ACS NANO. 2025;XXXX(XXX):XXX-XXX IHC,IF ;Mouse. 40392526
- **[IF=16]** Hao Tan. et al. Microneedles Loaded with Nitric-Oxide Driven Nanomotors Improve Force-Induced Efferocytosis Impairment and Sterile Inflammation by Revitalizing Macrophage Energy Metabolism. ACS NANO. 2025;19(9):9390–9411 IHC ;Rat. 40025734
- **[IF=13.8]** Zhou Xinghong. et al. Gut microbiota dysbiosis in hyperuricaemia promotes renal injury through the

activation of NLRP3 inflammasome. MICROBIOME. 2024 Dec;12(1):1-20 WB ;Rat. 38907332

- **[IF=12.8]** Linhong Liu. et al. Transformable peptide blocks NF-κB/IκBα pathway through targeted coating IκBα against rheumatoid arthritis. BIOMATERIALS. 2025 Mar;314:122839 IHC ;Rat. 39288618
- **[IF=13.4]** Tong Li. et al. Protein-based supramolecular adhesive capable of on-demand adhesion and anti-adhesion for preventing undesired epidural tissue adhesionCHEM ENG J. 2025 Jan;505:159778 Western blot ;Rat. 10.1016/j.cej.2025.159778