

**bsm-52727R****[ Primary Antibody ]****Bioss**  
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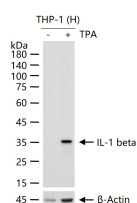
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**IL-1 beta Recombinant Rabbit mAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 1T3	<b>Reactivity:</b> Human
<b>GeneID:</b> 3553	<b>SWISS:</b> P01584	
<b>Target:</b> IL-1 beta		
<b>Immunogen:</b> A synthesized peptide derived from human IL 1 beta: 200-269.		<b>Predicted MW.:</b> 31 kDa
<b>Purification:</b> affinity purified by Protein A		<b>Subcellular Location:</b> Secreted
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 0.05% BSA, 40% Glycerol, 0.02% Proclin300. 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 —**

THP-1 (H) cells were treated with or without TPA (80nM) for 24h, then treated with (100ng/ml) lipopolysaccharide (LPS) for 6h, then with (300ng/ml) Brefeldin A added after 3h, 25 µg total protein per lane of cell lysates (see on figure) probed with IL-1 beta monoclonal antibody, unconjugated (bsm-52727R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**— SELECTED CITATIONS —**

- **[IF=8.2]** Lin Peng. et al. Bisphenol A exposure exacerbates tracheal inflammatory injury in selenium-deficient chickens by regulating the miR-155/TRAFF3/ROS pathway. INT J BIOL MACROMOL. 2023 Dec;253:127501 WB ;Chicken. 37866585
- **[IF=5.7]** Mengyue Yin. et al. The impact of SARS-CoV-2 infection at different stages of pregnancy on placental inflammatory responses. Frontiers in Immunology. Western blot ;Human. 33613576
- **[IF=5.1]** Min Wei. et al. The role of ROS-pyoptosis in PM2.5 induced air-blood barrier destruction. CHEM-BIOL INTERACT. 2023 Dec;386:110782 WB ;Human. 37884181

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

- **[IF=2.6]** Yu Fang. et al. Corydalis yanhusuo Polysaccharides regulates HPA-axis mediated microglia activation and inhibits astrocyte A1 transformation to improve depression-like behavior. BRAIN RES. 2025 Oct;1864:149780 WB ;Mouse. 40513699
- **[IF=preprint]** Mengyue Yin. et al.Impact of SARS-CoV-2 Infection During Various Pregnancy Trimesters on Maternal and Fetal Outcomes.Research Square. Western blot ;Human. 10.21203/rs.3.rs-4488503/v1