

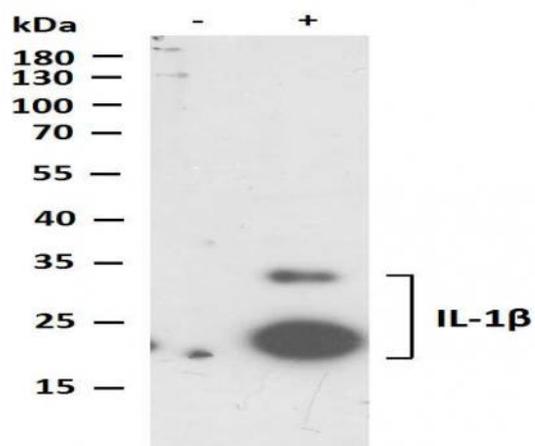
**IL-1 $\beta$  (PTR2541) mouse mAb**

<b>Catalog No :</b>	YM4682
<b>Reactivity :</b>	Human;Mouse;Rat;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	IL-1 $\beta$
<b>Fields :</b>	>>Antifolate resistance;>>MAPK signaling pathway;>>Cytokine-cytokine receptor interaction;>>NF-kappa B signaling pathway;>>Necroptosis;>>Osteoclast differentiation;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>C-type lectin receptor signaling pathway;>>Hematopoietic cell lineage;>>IL-17 signaling pathway;>>Th17 cell differentiation;>>TNF signaling pathway;>>Inflammatory mediator regulation of TRP channels;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications;>>Alcoholic liver disease;>>Type I diabetes mellitus;>>Alzheimer disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Pertussis;>>Legionellosis;>>Yersinia infection;>>Leishmaniasis;>>Chagas disease;>>African trypanosomiasis;>>Malaria;>>Amoebiasis;>>Tuberculosis;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Herpes simp
<b>Gene Name :</b>	IL1B IL1F2
<b>Protein Name :</b>	Interleukin-1 beta (IL-1 beta) (Catabolin)
<b>Human Gene Id :</b>	3553
<b>Human Swiss Prot No :</b>	P01584
<b>Mouse Gene Id :</b>	16176
<b>Mouse Swiss Prot No :</b>	P10749
<b>Rat Swiss Prot No :</b>	Q63264
<b>Immunogen :</b>	Synthesized peptide derived from human IL-1 $\beta$ AA range: 150-250

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<b>Specificity :</b>	<u>This antibody detects endogenous levels of IL-1<math>\beta</math> protein.</u>
<b>Formulation :</b>	<u>PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA</u>
<b>Source :</b>	<u>Mouse, Monoclonal/IgG1, kappa</u>
<b>Dilution :</b>	<u>WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000</u>
<b>Purification :</b>	<u>Protein G</u>
<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Molecularweight :</b>	<u>31kD</u>
<b>Observed Band :</b>	<u>31kD,18kD</u>
<b>Background :</b>	<u>interleukin 1 beta(IL1B) Homo sapiens 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],</u>
<b>Function :</b>	<u>domain:The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.,function:Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.,online information:Interleukin-1 entry,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the IL-1 family.,subcellular location:The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.,subunit:Mono</u>
<b>Expression :</b>	<u>Expressed in activated monocytes/macrophages (at protein level).</u>

## Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-IL-1 $\beta$ (PTR2541) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Untreated THP-1 Lane 2: THP-1 treated with LPS(100ng/ml) for 3h