

**Cat. No:** MAB-94634  
**Conjugate:** Unconjugated  
**Size:** 100 ug  
**Clone:** MI1  
**Concentration:** 1mg/ml  
**Host:** Rabbit  
**Isotype:** IgG

**Immunogen:** The antiserum was produced against synthesized peptide derived from the Internal region of human IL1B. AA range:181-230

**Reactivity:** Human, Mouse, Rat

**Applications:** Western Blot: 1:500 - 1:2000  
 Immunofluorescence: 1:50 - 1:200  
 Immunohistochemistry (paraffin-embedded tissues) 1:100-300

**Molecular Weight:** 17kDa

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

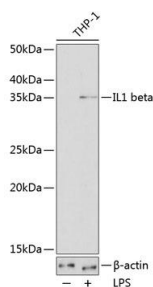
**Synonyms:** IL-1;IL1-BETA;IL1F2;IL1 beta;IL1B

**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.

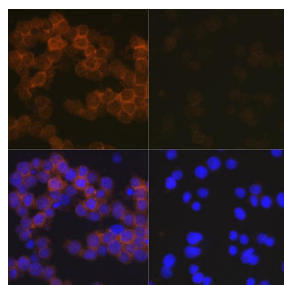
**Form:** Liquid

**Buffer:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

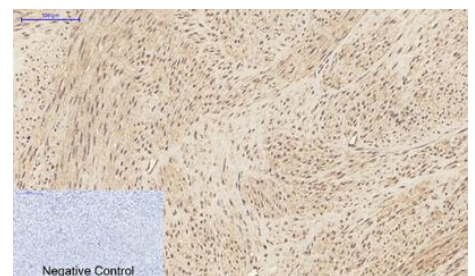
**Storage:** Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of THP-1 cells, using IL1 beta antibody at 1:1000 dilution. THP-1 cells were treated by LPS (1 µg/mL) at 37°C for 8 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.



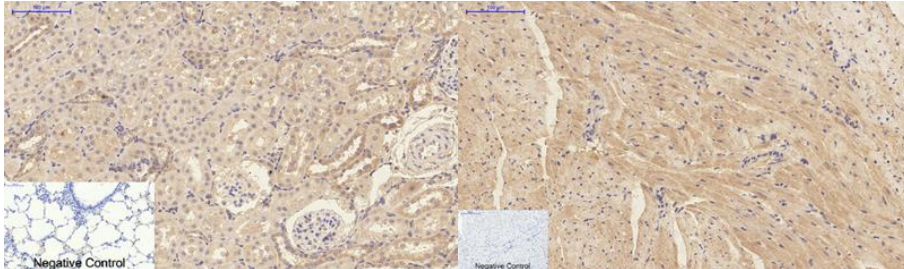
Immunofluorescence analysis of THP-1 cells using IL1 beta antibody. (THP-1 cells were treated by LPS (1 µg/mL) at 37°C for 8 hours. Blue: DAPI for nuclear staining.



Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, IL-1β Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min).

Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in  
TBST. Detection: ECL West Pico Plus.  
Exposure time: 3min.

3,Secondary antibody was diluted at  
1:200(room temperature, 30min).  
Negative control was used by  
secondary antibody only.



Immunohistochemical analysis of  
paraffin-embedded Rat-lung tissue.  
1,IL-1 $\beta$  Polyclonal Antibody was diluted  
at  
1:200(4°C,overnight). 2, Sodium citrate  
pH 6.0 was used for antibody  
retrieval(>98°C,20min).  
3,Secondary antibody was diluted at  
1:200(room temperature).

Immunohistochemical analysis of  
paraffin-embedded Mouse-heart tissue.  
1,IL-1 $\beta$  Polyclonal Antibody was diluted  
at 1:200(4°C,overnight). 2, Sodium  
citrate pH 6.0 was used for antibody  
retrieval(>98°C,20min).3,Secondary  
antibody was diluted at  
1:200(roomtemperature, 30min).  
Negative control was used by  
secondary antibody only.