

## Product datasheet for PP006P1

### II1b Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	<b>Neutralization:</b> To yield one-half maximal inhibition [ <b>ND</b> <sub>50</sub> ] of the biological activity of Mouse IL-1 $\beta$ (10 pg/ml), a concentration of 0.57-0.86 $\mu$ g/ml of this antibody is required. <b>Direct ELISA:</b> To detect Mouse IL-1-beta by direct ELISA (using 100 $\mu$ l/well antibody solution) a concentration of at least 0.5 $\mu$ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2-0.4 ng/well of recombinant Mouse IL-1-beta. <b>Sandwich ELISA:</b> To detect Mouse IL-1 $\beta$ by Sandwich ELISA (using 100 $\mu$ l/well antibody solution) a concentration of 0.5-2.0 $\mu$ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with Biotinylated Anti-Murine IL-1 $\beta$ (Cat.-No PP006B1 or PP006B2) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant mIL-1 $\beta$ . <b>Western Blot:</b> To detect Mouse IL-1-beta by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 $\mu$ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Mouse IL-1-beta is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) E.coli derived recombinant Murine IL-1-beta. (Cat.-No PA009).
Specificity:	This antibody recognizes Interleukin-1 beta / IL-1B. Other species not tested.
Formulation:	PBS, pH 7.4 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with sterile water to a concentration of 0.1-1.0 mg/ml.
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using immobilized mIL-1 $\beta$ matrix.
Conjugation:	Unconjugated



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**Storage:** Store lyophilized at 2-8°C for 6 months or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month  
or (in aliquots) at -20°C long term.  
Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Gene Name:** interleukin 1 beta

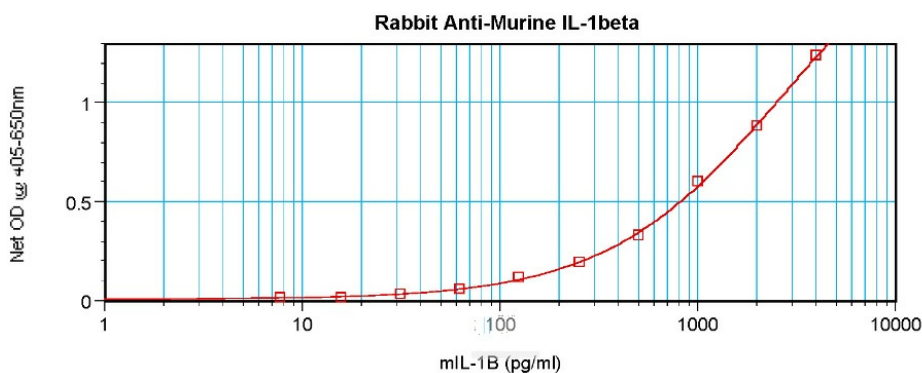
**Database Link:** [Entrez Gene 16176 Mouse P10749](#)

**Background:** Interleukin 1 (IL1), originally known as lymphocyte activating factor (LAF), activates T cells and lymphocytes, which then proliferate and secrete interleukin 2. IL1 is primarily released from stimulated macrophages and monocytes, but also is released from several other cell types, and is thought to play a key role in inflammatory and immune responses. The two closely related agents, interleukin1 alpha (IL1 alpha) and interleukin1 beta (IL1 beta) bind to the same cell surface receptor, elicit nearly identical biological responses and share 25% homology in their amino acid sequence.

**Synonyms:** IL-1 beta, IL1B, IL1 beta, IL1F2, Catabolin

**Note:** Centrifuge vial prior to opening.

### Product images:



Sandwich ELISA using nterleukin-1 beta / IL-1B  
Antibody PP006P