

## Recombinant Mouse IL-1 $\beta$ (ELISA Std.)

**Catalog # / Size:** 575109 / 4 pack

**Source:** Mouse IL-1 $\beta$ , amino acids Val118-Ser269 (Accession # NM\_008361) was expressed in *E. coli*, approximately 17 kD.

**Preparation:** ELISA Standard 4-Pack contains four vials of recombinant mouse IL-1 $\beta$  at >5 ng per vial. Recommended for ELISA application only. Standards are calibrated against a BioLegend Master Calibrator.

**Formulation:** Lyophilized in sterile-filtered PBS, pH 7.2, containing 1% BSA.

**Storage:** Upon receipt, store unopened vials between 2°C and 8°C immediately and use within 12 months from date of receipt. Prior to use, reconstitute the lyophilized powder with 0.2 ml of PBS containing a carrier protein (e.g., 1% BSA, protease free), pH 7.4. Re-cap vial, vortex. Allow the reconstituted standard to sit at room temperature for 15 minutes, vortex again to mix completely. The reconstituted standard stock solution can be aliquoted into polypropylene vials and stored at -70°C for up to one month. Do not re-use diluted standards. Use a manual defrost freezer and avoid repeated freeze thaw cycles.

## Applications:

**Applications:** ELISA

**Recommended Usage:** Each lot of this protein is quality control tested by ELISA assay. For use as an ELISA standard, a standard curve comprised of doubling dilutions from 2000 pg/ml to 31.3 pg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** This IL-1 $\beta$  protein is useful as a standard for a mouse IL-1 $\beta$  sandwich ELISA, using unlabeled B122 antibody (Cat. No. 503502) for capture and biotinylated Poly5158 antibody (Cat. No. 515801) for detection.

**Description:** IL-1 refers to two proteins, IL-1 $\alpha$  and IL-1 $\beta$  which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1 $\beta$  is a potent immuno-modulator which mediates a wide range of immune and inflammatory responses including the activation of B and T cells. The B122 antibody reacts with the precursor and mature secreted forms of mouse IL-1 $\beta$ . This antibody also recognizes rat IL-1 $\beta$ . The B122 antibody can neutralize the bioactivity of natural or recombinant IL-1 $\beta$ .

**Other Names:** Interleukin-1 $\beta$ , Catabolin, Hematopoietin-1 (H1), IFN $\beta$ -inducing factor, Interleukin- $\beta$ , Osteoclast activating factor (OAF) b>(il-1b,il1b)

**Antigen References:**

1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
2. Bomford R, *et al.* Eds. 1989. *Interleukin-1 inflammation and disease*. Elsevier New York.
3. Brazel D, *et al.* 1991. *Biotechnol. Ther.* 2:241.
4. Dinarello C. 1996. *Blood* 87:2095.

### Related Products:

**Product**  
Purified anti-mouse / rat IL-1b  
Biotin anti-mouse IL-1b  
Mouse IL-1b ELISA MAX $\Delta$  Standard  
Mouse IL-1b ELISA MAX $\Delta$  Deluxe

**Clone**  
B122  
Poly5158

**Application**  
ELISA Capture, IHC, IP, WB  
ELISA Detection  
ELISA  
ELISA



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