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## Anti-Human IL-1 beta Functional Grade Purified

Catalog Number: 16-7018

Also Known As: Interleukin-1 beta

RUO: For Research Use Only. Not for use in diagnostic procedures.

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### Product Information

**Contents:** Anti-Human IL-1 beta Functional Grade Purified

**REF** **Catalog Number:** 16-7018

**Clone:** CRM56


**Concentration:** 1 mg/mL

**Host/Isotype:** Mouse IgG1


**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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### Description

The CRM56 antibody reacts with human and baboon interleukin-1 beta; (IL-1 beta). IL-1 beta is a 17 kDa factor secreted primarily by monocytes. IL-1 has effects on T-helper cells, inducing IL-2 secretion and expression of IL-2 receptors. IL-1 has effects on B cells, promoting cell proliferation and immunoglobulin synthesis.

### Applications Reported

The CRM56 antibody has been reported for use in cytokine neutralization, and ELISA. Fluorochrome conjugated CRM56 is recommended for use in intracellular staining for flow cytometry. Functional Grade purified CRM56 antibody, cat. 16-7018, is recommended for use in functional assays.

### Applications Tested

The CRM56 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human interleukin-1 $\beta$  (IL-1 $\beta$ ) in combination with the biotin CRM57 (13-7016) antibody for detection and recombinant human IL-1 $\beta$  (14-8018) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1 - 4  $\mu$ g/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/ml - 8 pg/ml should be included in each ELISA plate.

The Functional Grade Purified CRM56 antibody has been tested by LAL assay to verify low endotoxin and by bioassay to verify neutralization of IL-1 $\beta$  bioactivity.

For in vitro neutralization, the CRM56 antibody at 2.5  $\mu$ g/ml has been found to neutralize by 50% the effect of 1 ng/ml human IL-1 $\beta$  bioactivity in a D10.G4.1 cell proliferation bioassay.

### Related Products

13-7016 Anti-Human IL-1 beta Biotin (CRM57)

14-8018 Human IL-1 beta Recombinant Protein

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

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