

## Mouse IL-1β/IL-1F2 PE-conjugated **Antibody**

Monoclonal Rat IgG<sub>2B</sub> Clone # 166931

Catalog Number: IC4013P 100 Tests

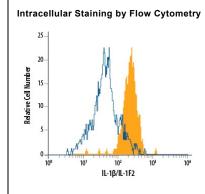
DESCRIPTION									
Species Reactivity	Mouse								
Specificity	Detects mouse IL-1β/IL-1F2 in direct ELISAs. In direct ELISAs, approximately 75% cross-reactivity with recombinant guinea pig IL-1β, 5-15% cross-reactivity with recombinant canine, cotton rat, feline, equine, and rat IL-1β, and no cross-reactivity with recombinant human, porcine, and rhesus IL-1β is observed. No cross-reactivity with recombinant human (rh) Pro-IL-1β, rhIL-1F7, rhIL-1F10, rhIL-36γ, recombinant mouse (rm) IL-1α, rmIL-18, rmIL-36Ra, rmIL-36β is observed.								
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 166931								
Purification	Protein A or G purified from hybridoma culture supernatant								
Immunogen	E. coli-derived recombinant mouse IL-1β/IL-1F2 Val118-Ser269 Accession # P10749								
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm								

\*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet

(SDS) for additional information and handling instructions.										
APPLICATIONS										
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.										
	Recommended Concentration	Sample								
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below								

Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

Formulation



Detection of IL-1β/IL-1F2 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes either untreated (open histogram) or treated with LPS for 48 hours (filled histogram) were stained with Rat Anti-Mouse IL-1β/IL-1F2 PE-conjugated Monoclonal Antibody (Catalog # IC4013P) or isotype control antibody (Catalog # IC013P, data not shown). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules

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Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage

Protect from light. Do not freeze.

Emission Wavelength: 565-605 nm

12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

IL-1β is a pro-inflammatory cytokine belonging to the IL-1 superfamily, designated IL-1F2. IL-1β and IL-1α/IL-1F1 bind the same receptors but vary in expression and affinity. They share only 25% amino acid (aa) sequence identity and are produced from separate genes. IL-1ß is synthesized as a 31 kDa pro-form that is cleaved intracellularly by caspase-1 to produce the mature active 17.5 kDa IL-1β. Mature mouse IL-1β shares 74% and 91% aa identity with human and rat IL-1β, respectively.

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