

#### DESCRIPTION

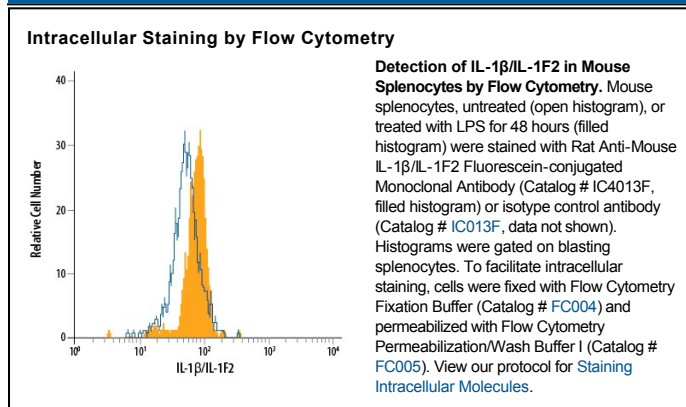
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse IL-1 $\beta$ /IL-1F2 in direct ELISAs. In direct ELISAs, approximately 75% cross-reactivity with recombinant guinea pig IL-1 $\beta$ , 5–15% cross-reactivity with recombinant canine, cotton rat, feline, equine, and rat IL-1 $\beta$ , and no cross-reactivity with recombinant human, porcine, and rhesus IL-1 $\beta$ is observed. No cross-reactivity with recombinant human (rh) Pro-IL-1 $\beta$ , rhIL-1F7, rhIL-1F10, rhIL-36 $\gamma$ , recombinant mouse (rm) IL-1 $\alpha$ , rmIL-18, rmIL-36Ra, rmIL-36 $\alpha$ , or rmIL-36 $\beta$ is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 166931
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse IL-1 $\beta$ /IL-1F2 Val118-Ser269 Accession # P10749
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

IL-1 $\beta$  is a pro-inflammatory cytokine belonging to the IL-1 superfamily, designated IL-1F2. IL-1 $\beta$  and IL-1 $\alpha$ /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-1 $\beta$  is synthesized as a 31 kDa pro-form that is cleaved intracellularly by caspase-1 to produce the mature active 17.5 kDa IL-1 $\beta$ . Mature mouse IL-1 $\beta$  shares 74% and 91% aa identity with human and rat IL-1 $\beta$ , respectively.