

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-1β/IL-1F2 Propeptide in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-1 alpha, rhIL-1F7, rhIL-1F10, rhIL-18, rhIL-36 alpha, rhIL-36 beta, IL-36 gamma, rhIL-36Ra, recombinant mouse
Source	Monoclonal Mouse IgG ₁ Clone # 615417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IL-1β/IL-1F2 Propeptide Met1-Asp116 Accession # P01584
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

IL-1β, also known as IL1F2, is a prototypical member of the IL-1 superfamily. It is produced by a wide variety of cells in response to inflammatory agents, infections, or microbial endotoxins. The biological activity of IL-1β is mediated by the heterodimeric receptor complex containing IL-1 R1 (IL-1 RI) and IL-1 R3 (IL-1 RAcP). The IL-1β propeptide is cleaved intracellularly by caspase-1/ICE to generate a 17 kDa active cytokine. The propeptide of human IL-1β shares approximately 55% aa sequence identity with the propeptides of mouse and rat IL-1β.

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