



# Anti-IL1B Monoclonal antibody, clone C-B26 [FITC] (CABT-BL7742)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	C-B26
Purification	Affinity chromatography
Conjugate	FITC
Applications	FC
Format	Liquid
Concentration	10ul/Test
Size	100 tests
Buffer	TBS, pH 7.2-7.4, with 1% BSA
Preservative	0.02% Sodium Azide
Storage	4°C

## BACKGROUND

Introduction	Interleukin-1 beta (IL-1 beta) is a proinflammatory cytokine expressed by monocytes, macrophages, and dendritic cells. It is synthesized in response to inflammatory stimuli as a 31
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kDa inactive pro-form that accumulates in the cytosol. Cleavage of pro-IL-1 beta into the active 17 kDa protein requires the activation of inflammasomes, which are multi-protein complexes that respond to pathogens, stress conditions, and other danger signals. Inflammasome activation triggers the processing of the caspase-1 precursor into its active form, which in turn cleaves pro-IL-1 beta. IL-1 beta lacks a signal sequence peptide for classical ER/Golgi pathway and is instead secreted alongside caspase-1 via an alternate and incompletely understood mechanism. Although IL-1 beta is most often secreted in its active form, secretion of the uncleaved protein may be detectable under some biological conditions. IL-1 beta signals through two receptors, IL-1RI and IL-1RII, both of which are shared with IL-1 alpha. These cytokines play important roles in innate host defense by triggering the production of other proinflammatory cytokines in target cells and initiating acute-phase responses. Their activity can be moderated by IL-1 Receptor Antagonist (IL-1RA), a protein produced by many cell types that blocks receptor binding through competitive inhibition. Elevated levels of IL-1 beta have been associated with many chronic inflammatory conditions, giving IL-1RA or IL-1 beta neutralizing antibodies potential therapeutical value.

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<b>Keywords</b>	IL1B; interleukin 1, beta; interleukin-1 beta; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; IL-1; IL1-BETA;
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## GENE INFORMATION

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<b>Entrez Gene ID</b>	<a href="#">3553</a>
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<b>UniProt ID</b>	<a href="#">Q9UCT6</a>
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