



Anti-IL1B Monoclonal antibody, clone DSN67 [PE] (CABT-BL7743)

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	DSN67
Purification	Affinity chromatography
Conjugate	PE
Applications	FC
Format	Liquid
Concentration	5ul/Test
Size	25 tests
Buffer	PBS, pH 7.2, with 0.2% BSA, 0.1% gelatin
Preservative	0.09% Sodium Azide
Storage	4°C, store in dark, DO NOT FREEZE!

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.

Keywords	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

Entrez Gene ID	3553
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UniProt ID	Q9UCT6
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