



Mouse anti Human IL1B monoclonal antibody, clone 3916 (CABT-L198)

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

PRODUCT INFORMATION

Immunogen E. coli-derived recombinant human IL-1 beta /IL-1F2 Isotype IgG1 Source/Host Mouse Species Reactivity Human Clone 3916 Purification Protein A or G purified from hybridoma culture supernatant Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Specificity	Detects human IL-1 beta /IL-1F2 in sandwich ELISAs and Western blots. In sandwich ELISAs, less than 4% cross-reactivity with recombinant rat (rr) IL-1 beta and less than 0.1% with recombinant porcine (rp) IL-1 beta, recombinant human IL-1 alpha, rpIL-1 alpha, rrIL-1 alpha, recombinant mouse (rm) IL-1 alpha, and rmIL-1 beta is observed.
Isotype IgG1 Source/Host Mouse Species Reactivity Human Clone 3916 Purification Protein A or G purified from hybridoma culture supernatant Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Target	IL-1beta/IL-1F2
Source/Host Mouse Species Reactivity Human Clone 3916 Purification Protein A or G purified from hybridoma culture supernatant Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Immunogen	E. coli-derived recombinant human IL-1 beta /IL-1F2
Species ReactivityHumanClone3916PurificationProtein A or G purified from hybridoma culture supernatantConjugateUnconjugatedApplicationsELISA(Cap), ICC/IF, WB	Isotype	IgG1
Clone 3916 Purification Protein A or G purified from hybridoma culture supernatant Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Source/Host	Mouse
Purification Protein A or G purified from hybridoma culture supernatant Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Species Reactivity	Human
Conjugate Unconjugated Applications ELISA(Cap), ICC/IF, WB	Clone	3916
Applications ELISA(Cap), ICC/IF, WB	Purification	Protein A or G purified from hybridoma culture supernatant
	Conjugate	Unconjugated
Paganatitution Paganatitute at 0.5 mg/ml in sterile DDC	Applications	ELISA(Cap), ICC/IF, WB
Reconstitution Reconstitute at 0.5 mg/mL in sterile PB5.	Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format Lyophilized; Small package size(SP): Liquid	Format	Lyophilized; Small package size(SP): Liquid
Size 100 μg, 500 μg	Size	100 μg, 500 μg
Buffer PBS with Trehalose	Buffer	PBS with Trehalose

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Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Ship	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

BACKGROUND

Introduction

IL-1 is a name that designates two pleiotropic cytokines, IL-1 alpha(IL-1F1) and IL-1 beta(IL-1F2), which are the products of distinct genes. IL-1 alpha and IL-1 beta are structurally related polypeptides that share approximately 21% amino acid (aa) identity in human. Both proteins are produced by a wide variety of cells in response to inflammatory agents, infections, or microbial endotoxins. While IL-1 alpha and IL-1 beta are regulated independently, they bind to the same receptor and exert identical biological effects. IL-1 RI binds directly to IL-1 alpha or IL-1 beta b and then associates with IL-1 R accessory protein (IL-1 R3/IL-1 R AcP) to form a high-affinity receptor complex that is competent for signal transduction. IL-1 RII has high affinity for IL-1 beta but functions as a decoy receptor and negative regulator of IL-1 beta activity. IL-1ra functions as a competitive antagonist by preventing IL-1 alpha and IL-1 beta from interacting with IL-1 RI. The human IL-1 beta cDNA encodes a 269 aa precursor. A 116 aa propeptide is cleaved intracellularly by the cysteine protease IL-1 beta-converting enzyme (Caspase-1/ICE) to generate the active cytokine. The 17 kDa mature human IL-1 beta b shares 96% aa sequence identity with rhesus and 67-78% with canine, cotton rat, equine, feline, mouse, porcine, and rat IL-1 beta.

Keywords

catabolin;IL1 beta;IL-1;IL1B;IL-1b;IL1-BETA;IL-1F2;IL1F2IL-1 beta;interleukin 1; beta;interleukin-1 beta;preinterleukin 1 beta;pro-interleukin-1-beta

GENE INFORMATION

Entrez Gene ID	<u>3553</u>
UniProt ID	<u>P01584</u>