



Mouse anti Porcine IL1B monoclonal antibody, clone 88835 (CABT-L336)

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

PRODUCT INFORMATION

Specificity	Detects porcine IL-1 beta in direct ELISAs and Western blots. In Western blots, 100% cross-reactivity with recombinant human (rh) IL-1 beta and recombinant mouse (rm) IL-1 beta is observed and no cross-reactivity with rhIL-1 alpha, rmIL-1 alpha, recombinant porcine IL-1 alpha or recombinant rat IL-1 alpha is observed.
Target	IL-1beta/IL-1F2
Immunogen	E. coli-derived recombinant porcine IL-1 beta /IL-1F2, Ala115-Pro267, Accession #P26889.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Porcine
Clone	88835
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA(Cap), WB
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized; Small package size(SP): Liquid
Size	100 µg, 500 µg
Buffer	PBS with Trehalose

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 27% amino acid (aa) identity in porcine. 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 porcine IL-1 beta cDNA encodes a 267 aa precursor. A 114 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 porcine IL-1 beta b shares 63-70% aa sequence identity with canine, cotton rat, equine, feline, human, mouse, rat, and rhesus macaque IL-1 beta.
Keywords	catabolin;IL1 beta;IL-1 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	397122
UniProt ID	P26889