

## Mouse IL-1 $\beta$ Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0007	<b>Applications</b>	ELISA
<b>Synonyms</b>	IL1B, IL1-BETA, IL1F2, catabolin		

### Kit components & Storage

Title	Specifications	Storage
Mouse IL-1 $\beta$ Capture Antibody	1 vial, 100 $\mu$ g	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse IL-1 $\beta$ Detection Antibody (Biotin)	1 vial, 50 $\mu$ L	Store at -20°C for one year. Avoid freeze / thaw cycles.

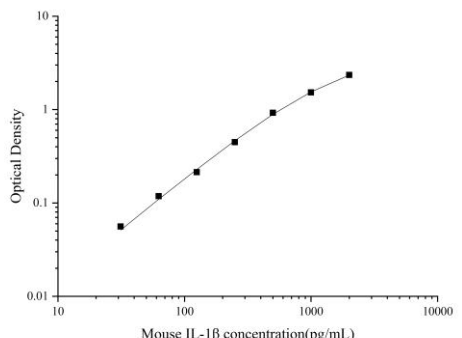
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0007)	
		Mouse IL-1 $\beta$ Capture Antibody	Mouse IL-1 $\beta$ Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse IL-1 $\beta$ protein	Recombinant Mouse IL-1 $\beta$ protein
	Swissprot	P10749	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Mouse IL-1 $\beta$ in ELISAs.	

## Applications

Mouse IL-1 $\beta$  Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 $\mu$ g/mL	Mouse IL-1 $\beta$ Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Mouse IL-1<math>\beta</math> concentration(pg/mL)' and ranges from 10 to 10000. There are six data points plotted as black squares, connected by a smooth curve. The points are approximately at (30, 0.05), (50, 0.1), (100, 0.2), (200, 0.4), (500, 0.8), and (1000, 1.5).</p>
ELISA Detection	1:1000-1:10000	Mouse IL-1 $\beta$ Detection Antibody (Biotin)	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.