

Porcine IL-1 β Antibody Pair Set

Catalog No.	E-KAB-0615	Applications	ELISA
Synonyms	IL1-BETA;IL1B;IL1F2;catabolin		

Kit components & Storage

Title	Specifications	Storage
Porcine IL-1 β Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year. Avoid freeze/thaw cycles.
Porcine IL-1 β Detection Antibody (Biotin)	1 vial, 50 μ 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-0615)	
		Porcine IL-1 β Capture Antibody	Porcine IL-1 β Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Porcine IL-1 β protien	Recombinant Porcine IL-1 β protien
	Swissprot	P26889.1	
Product details	Reactivity	Porcine	Porcine
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Porcine IL-1 β in ELISAs.	

For Research Use Only

Applications

Porcine IL-1 β Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 μ g/mL	Porcine IL-1 β Capture Antibody	<table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Porcine IL-1β Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>10</td><td>0.1</td></tr> <tr><td>20</td><td>0.2</td></tr> <tr><td>50</td><td>0.5</td></tr> <tr><td>100</td><td>1.0</td></tr> <tr><td>200</td><td>2.0</td></tr> <tr><td>500</td><td>3.0</td></tr> <tr><td>1000</td><td>4.0</td></tr> </tbody> </table>	Porcine IL-1 β Concentration (pg/mL)	Optical Density	10	0.1	20	0.2	50	0.5	100	1.0	200	2.0	500	3.0	1000	4.0
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ELISA Detection	1:1000-1:10000	Porcine IL-1 β Detection Antibody (Biotin)																	

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

Background

Potent pro-inflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells. Plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore.

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