

Porcine IL-4 Antibody Pair Set

Catalog No.	E-KAB-0618	Applications	ELISA
Synonyms	Interleukin-4;IL-4;B-cell stimulatory factor 1 (BSF-1);Lymphocyte stimulatory factor 1;IL4		

Kit components & Storage

Title	Specifications	Storage
Porcine IL-4 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Porcine IL-4 Detection Antibody (Biotin)	1 vial, 50 µL	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-0618)	
		Porcine IL-4 Capture Antibody	Porcine IL-4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Porcine IL-4 protien	Recombinant Porcine IL-4 protien
	Swissprot	Q04745	
Product details	Reactivity	Porcine	Porcine
	Host	Goat	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Porcine IL-4 in ELISAs.	

Applications

Porcine IL-4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Porcine IL-4 Capture Antibody	<table border="1"> <caption>Standard Curve Data (Approximate)</caption> <thead> <tr> <th>Porcine IL-4 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.05</td></tr> <tr><td>2</td><td>0.1</td></tr> <tr><td>5</td><td>0.2</td></tr> <tr><td>10</td><td>0.4</td></tr> <tr><td>20</td><td>0.8</td></tr> <tr><td>50</td><td>1.5</td></tr> <tr><td>100</td><td>3.0</td></tr> </tbody> </table>	Porcine IL-4 Concentration (pg/mL)	Optical Density	1	0.05	2	0.1	5	0.2	10	0.4	20	0.8	50	1.5	100	3.0
Porcine IL-4 Concentration (pg/mL)	Optical Density																		
1	0.05																		
2	0.1																		
5	0.2																		
10	0.4																		
20	0.8																		
50	1.5																		
100	3.0																		
ELISA Detection	1:1000-1:10000	Porcine IL-4 Detection Antibody (Biotin)																	

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

Background

Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4.