

Mouse IL-18 Antibody Pair Set

Catalog No.	E-KAB-0568	Applications	ELISA
Synonyms	IL18;IGIF;IL-1g;IL-1F4;Interferon-gamma-inducing factor		

Kit components & Storage

Title	Specifications	Storage
Mouse IL-18 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Mouse IL-18 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

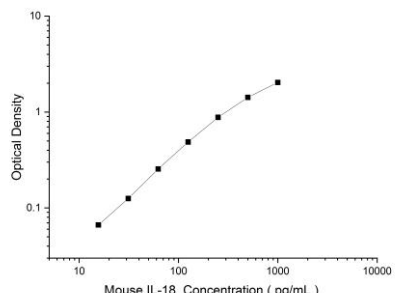
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0568)	
		Mouse IL-18 Capture Antibody	Mouse IL-18 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse IL-18 protien	Recombinant Mouse IL-18 protien
	Swissprot	P70380	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Rabbit
	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	Protein A or G
	Specificity	Detects Mouse IL-18 in ELISAs.	

Applications

Mouse IL-18 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Mouse IL-18 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse IL-18 Concentration (pg/mL). The x-axis ranges from 10 to 10,000 pg/mL, and the y-axis ranges from 0.1 to 10. The data points form a straight line, indicating a linear relationship between the log of concentration and the log of optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse IL-18 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>10</td><td>0.05</td></tr> <tr><td>20</td><td>0.1</td></tr> <tr><td>50</td><td>0.2</td></tr> <tr><td>100</td><td>0.4</td></tr> <tr><td>200</td><td>0.8</td></tr> <tr><td>500</td><td>1.5</td></tr> <tr><td>1000</td><td>2.5</td></tr> </tbody> </table>	Mouse IL-18 Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	2.5
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ELISA Detection	1:1000-1:10000	Mouse IL-18 Detection Antibody (Biotin)																	

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

Background

Interleukin-18 (L-18) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12 it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon- γ (IFN- γ) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.