

Mouse IL-5 Antibody Pair Set

Catalog No.	E-KAB-0567	Applications	ELISA
Synonyms	IL5;EDF;TRF;E-CSF;ESGF		

Kit components & Storage

Title	Specifications	Storage
Mouse IL-5 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Mouse IL-5 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

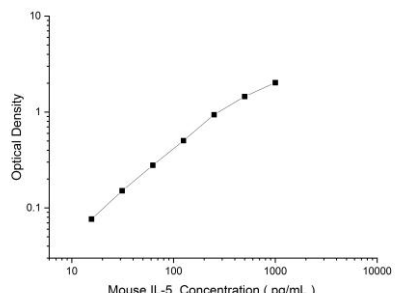
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0567)	
		Mouse IL-5 Capture Antibody	Mouse IL-5 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse IL-5 protien	Recombinant Mouse IL-5 protien
	Swissprot	P04401	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Rat
	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-5 in ELISAs.	

Applications

Mouse IL-5 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4 µg/mL	Mouse IL-5 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse IL-5 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 show a linear relationship on this scale, indicating a power-law relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse IL-5 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>0.15</td> </tr> <tr> <td>50</td> <td>0.25</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.6</td> </tr> <tr> <td>500</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>1.5</td> </tr> <tr> <td>2000</td> <td>2.0</td> </tr> </tbody> </table>	Mouse IL-5 Concentration (pg/mL)	Optical Density	10	0.1	20	0.15	50	0.25	100	0.4	200	0.6	500	1.0	1000	1.5	2000	2.0
Mouse IL-5 Concentration (pg/mL)	Optical Density																				
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2000	2.0																				
ELISA Detection	1:1000-1:10000	Mouse IL-5 Detection Antibody (Biotin)																			

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

Background

Homodimeric cytokine expressed predominantly by T-lymphocytes and NK cells that plays an important role in the survival, differentiation, and chemotaxis of eosinophils. Acts also on activated and resting B-cells to induce immunoglobulin production, growth, and differentiation. Mechanistically, exerts its biological effects through a receptor composed of IL5RA subunit and the cytokine receptor common subunit beta/CSF2RB. Binding to the receptor leads to activation of various kinases including LYN, SYK and JAK2 and thereby propagates signals through the RAS-MAPK and JAK-STAT5 pathways respectively.