

Human IL-7 Antibody Pair Set

Catalog No. E-KAB-0479

Applications

ELISA

Synonyms IL7

Kit components & Storage

Title	Specifications	Storage
Human IL-7 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human IL-7 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

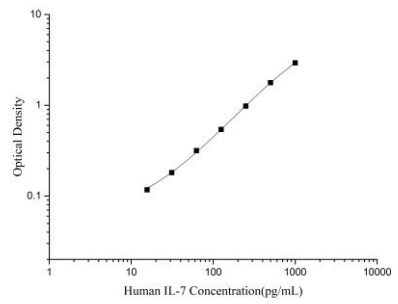
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0479)	
		Human IL-7 Capture Antibody	Human IL-7 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IL-7 protien	Recombinant Human IL-7 protien
	Swissprot	P13232	
Product details	Reactivity	Human	Human
	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 Human IL-7 in ELISAs.	

Applications

Human IL-7 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human IL-7 Capture Antibody	 <p>The graph displays a standard curve for the Human IL-7 Sandwich ELISA Assay. The x-axis represents Human IL-7 Concentration in pg/mL on a logarithmic scale from 1 to 10,000. The y-axis represents Optical Density on a logarithmic scale from 0.1 to 10. The data points form a straight line, indicating a linear relationship between the concentration of Human IL-7 and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IL-7 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>5.0</td> </tr> <tr> <td>1000</td> <td>10.0</td> </tr> </tbody> </table>	Human IL-7 Concentration (pg/mL)	Optical Density	10	0.1	20	0.2	50	0.5	100	1.0	200	2.0	500	5.0	1000	10.0
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ELISA Detection	1:1000-1:10000	Human IL-7 Detection Antibody (Biotin)																	

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

Background

Interleukin-7 (IL7) is a cytokine important for B and T cell development. IL7 plays an active role in the development; survival; maintaining and restoring homeostasis of mature T lymphocytes. It is also a key regulator of the commitment; survival; proliferation and maturation of B cells during development. Furthermore; IL7 can improve the antiviral function and expansion of natural killer (NK) cells and regulate the development and differentiation of dendritic cells. IL7 has also been reported as a regulator of the development of central nervous system and myogenesis and skeletal muscle cell migration.