

## Human IL-15 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0704	<b>Applications</b>	ELISA
<b>Synonyms</b>	IL15;IL-15;IL-15MGC9721;interleukin 15;interleukin-15		

### Kit components & Storage

Title	Specifications	Storage
Human IL-15 Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Human IL-15 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C. Avoid freeze / thaw cycles.

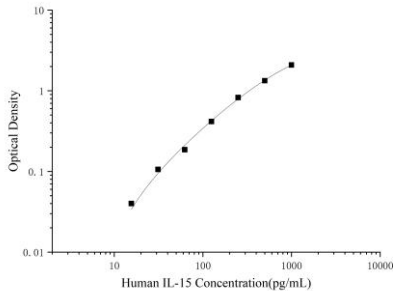
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0704)	
		Human IL-15 Capture Antibody	Human IL-15 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IL-15 protein	Recombinant Human IL-15 protein
	Swissprot	P40933	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human IL-15 in ELISAs.	

## Applications

Human IL-15 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4ug/mL	Human IL-15 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human IL-15 Concentration (pg/mL). The x-axis ranges from 10 to 10000 pg/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human IL-15 increases, the optical density also increases. The curve is smooth and follows a power-law relationship.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IL-15 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>3.0</td> </tr> </tbody> </table>	Human IL-15 Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	3.0
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ELISA Detection	1:1000-1:10000	Human IL-15 Detection Antibody (Biotin)																	

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

## Background

IL-15 is a regulatory cytokine, and it is produced by dendritic cells, epithelial cells, fibroblasts, and monocytes. IL-15 plays an important role in immune response and shares many functions with IL-2. For example, it stimulates the proliferation of activated T cells, NK cells, and B cells, and induces immunoglobulin synthesis by B cells stimulated by anti-IgM or CD40 ligand. In addition, IL-15 promotes the development of dendritic cells and induces the production of proinflammatory cytokines from macrophages. IL-15 acts as a bridge between innate and adaptive immunity because of its diverse roles in the immune system.