

Human IL-15 Antibody Pair Set

Catalog No. E-KAB-0704

Applications

ELISA

Synonyms 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℃. Avoid freeze / thaw cycles.
Human IL-15 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃. Avoid freeze / thaw cycles.

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

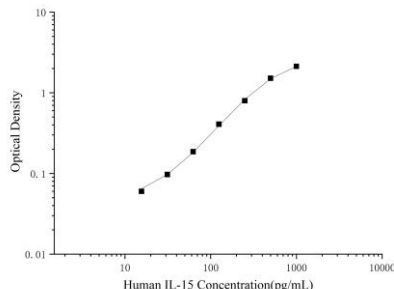
Product Information

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.	

For Research Use Only

Applications

Human IL-15 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4ug/mL	Human IL-15 Capture Antibody	 <table><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>2.5</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	2.5
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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.