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# **Human IL-10 Antibody Pair Set**

Catalog No. E-KAB-0040 Applications ELISA

**Synonyms** IL10, IL10A, CSIF, TGIF

## **Kit components & Storage**

Title	Specifications	Storage
Human IL-10 Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year.
		Avoid freeze / thaw cycles.
Human IL-10 Detection Antibody	1 vial, 50 μL	Store at -20°C for one year.
(Biotin)		Avoid freeze / thaw cycles.

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

#### **Product Information**

Items		Characteristic (E-KAB-0040)	
		Human IL-10 Capture Antibody	Human IL-10 Detection Antibody (Biotin)
Immunogen	Immunogen	Recombinant Human IL-10 protein	Recombinant Human IL-10 protein
Information	Swissprot	P22301	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%
		glycerol, pH 7.4	protective protein, 50% glycerol, pH
			7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human IL-10 in ELISAs.	

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Tel: 400-999-2100 Web: <a href="www.elabscience.cn">www.elabscience.cn</a> Email: <a href="mailto:techsupport@elabscience.cn">techsupport@elabscience.cn</a>





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### **Applications**

Human IL-10 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Human IL-10 Capture Antibody	
Capture			Aist
ELISA Detection	1:1000-1:10000	Human IL-10 Detection Antibody (Biotin)	0.01 0 0.01 1000 10000 Human IL-10 concentration(pg/mL)

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

#### **Background**

Interleukin (IL)-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL-10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

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