Elabscience®

Rat IL-10 Antibody Pair Set

Catalog No.	E-KAB-0102	Applications	ELISA
Synonyms	IL10, IL10A, CSIF, TGIF		

Kit components & Storage

Title	Specifications	Storage
Rat IL-10 Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Rat IL-10 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-0102)		
		Rat IL-10 Capture Antibody	Rat IL-10 Detection Antibody (Biotin)	
Immunogen	Immunogen	Recombinant Rat IL-10 protein	Recombinant Rat IL-10 protein	
Information	Swissprot	P29456		
Product details	Reactivity	Rat	Rat	
	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 Rat IL-10 in ELISAs.		

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Applications

Rat IL-10 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Rat IL-10 Capture Antibody	
Capture			
ELISA Detection	1:1000-1:10000	Rat IL-10 Detection Antibody (Biotin)	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000

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.