Elabscience®

Human IL-4 Antibody Pair Set

Catalog No.	E-KAB-0402	Applications	ELISA
Synonyms	IL4;BCGF-1;BCGF1;BSF-1;BSF1		

Kit components & Storage

Title	Specifications	Storage
Human IL-4 Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze/thaw cycles.
Human IL-4 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-0402)		
		Human IL-4 Capture Antibody	Human IL-4 Detection Antibody (Biotin)	
Immunogen	Immunogen	Recombinant Human IL-4 protien	Recombinant Human IL-4 protien	
Information	Swissprot	P05112		
Product details	Reactivity	Human	Human	
	Host	Mouse	Mouse	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5 mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300; 50%	PBS with 0.04% Proclin 300; 1%	
		glycerol; pH 7.5	protective protein; 50% glycerol; pH	
			7.5	
	Purify	Protein A or G	Protein A or G	
	Specificity	Detects Human IL-4 in ELISAs.		

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Applications

Human IL-4 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4 μg/mL	Human IL-4 Capture	
Capture		Antibody	10
			ensity
ELISA	1:1000-1:10000	Human IL-4 Detection	Optical Density
Detection		Antibody (Biotin)	° 0.1
			0.01
			ranalize - concentration (pg/m2)

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

Background

The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

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