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Human IL-22 Antibody Pair Set

Catalog No. E-KAB-0214 Applications ELISA

Synonyms IL22, IL-D110, IL-TIF, ILTIF, TIFIL-23, TIFa, zcyto18

Kit components & Storage

Title	Specifications	Storage
Human IL-22 Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year.
		Avoid freeze / thaw cycles.
Human IL-22 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-0214)	
		Human IL-22 Capture Antibody	Human IL-22 Detection Antibody
			(Biotin)
Immunogen	Immunogen	Recombinant Human IL-22 protein	Recombinant Human IL-22 protein
Information	Swissprot	Q9GZX6	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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	Protein A
	Specificity	Detects Human IL-22 in ELISAs.	

For Research Use Only

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Applications

Human IL-22 Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4μg/mL	Human IL-22 Capture Antibody	
Capture			Niss 100 0.01 1000 10000 Human IL-22 concentration(pg/mL)
ELISA Detection	1:1000-1:10000	Human IL-22 Detection Antibody (Biotin)	

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

Background

Interleukin-22 (IL-22), also known as IL-10-related T cell-derived inducible factor (IL-TIF) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid (aa) residue protein with a putative 33 aa signal peptide that is cleaved to generate a 147 aa mature protein that shares approximately 79% and 22% aa sequence identity with human IL-22 and IL-10, respectively. The mouse IL-22 gene is localized to chromosome 10. Although it exists as a single copy gene in many mouse strains, the IL-22 gene is duplicated in some mouse strains including C57B1/6, FVB and 129. The two mouse genes designated IL-TIF alpha and IL-TIF beta, share greater than 98% sequence homology in their coding region. IL-22 has been shown to activate STAT1 and STAT3 in several hepatoma cell lines and upregulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22 R (previously an orphan receptor named CRF2-9) and IL-10 R beta (previously known as CRF2-4), belonging to the class II cytokine receptor family.

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