

Human IL-37 Antibody Pair Set

Catalog No. E-KAB-0719**Applications**

ELISA

Synonyms IL37;FIL1;FIL1(ZETA);FIL1Z;IL-1F7;IL-1H;IL-1H4;IL-1RP1;IL-37;IL1F7;IL1H4;IL1RP1

Kit components & Storage

Title	Specifications	Storage
Human IL-37 Capture Antibody	1 vial, 100 µg	Store at -20℃. Avoid freeze / thaw cycles.
Human IL-37 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.

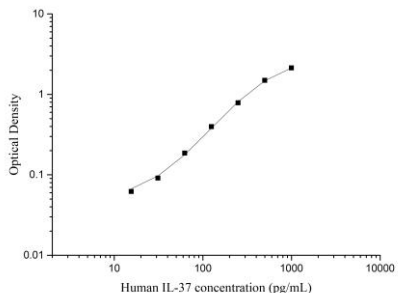
Product Information

Items		Characteristic (E-KAB-0719)	
		Human IL-37 Capture Antibody	Human IL-37 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IL-37 protein	Recombinant Human IL-37 protein
	Swissprot	Q9NZH6	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	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	Affinity purification	Affinity purification
	Specificity	Detects Human IL-37 in ELISAs.	

For Research Use Only

Applications

Human IL-37 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4ug/mL	Human IL-37 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human IL-37 Detection Antibody (Biotin)	

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

Background

IL-37, also known as IL-1F7, belongs to the IL-1 family. There are five isoforms generated by alternative splicing, identified as IL-37a-e. IL-37b is the largest isoform and IL-37a contains a unique N-terminal sequence, absent in other isoforms. IL-37 is exclusively expressed only in human cells, but not found in murine cells. IL-37 isoforms are expressed in a tissue-specific manner. Its expression is upregulated upon LPS stimulation as well as TLR agonists in human blood monocytes and macrophages, whereas it is downregulated by IL-12, IL-32 and combination of GM-CSF and IL-4. IL-37 has been shown to translocate to the nucleus upon LPS treatment. IL-37 is a broad anti-inflammatory cytokine. IL-37a and IL-37b inhibits LPS-treated pro-inflammatory cytokine production in M1-differentiated macrophages and dendritic cells via IL-18R α and SIGIRR/IL-1R8.