

## Human IL-8 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0047	<b>Applications</b>	ELISA
<b>Synonyms</b>	IL8, CXCL8, GCP-1, GCP1, LECT, LUCT, LYNAP, MDNCF, MONAP, NAF, NAP-1, NAP1, 3-10C, AMCF-I, K60		

### Kit components & Storage

Title	Specifications	Storage
Human IL-8 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human IL-8 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.

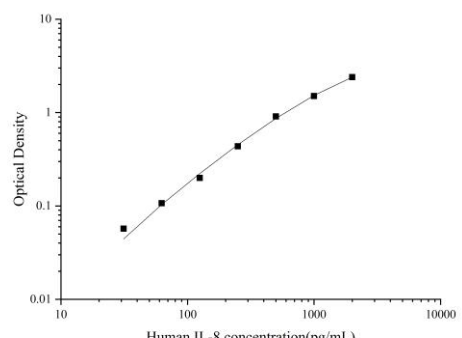
### Product Information

Items		Characteristic (E-KAB-0047)	
		Human IL-8 Capture Antibody	Human IL-8 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human IL-8 protein	Recombinant Human IL-8 protein
	Swissprot	P10145	
Product details	Reactivity	Human	Human
	Host	Mouse	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	Protein A or G	Antigen Affinity
	Specificity	Detects Human IL-8 in ELISAs.	

### For Research Use Only

## Applications

### Human IL-8 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4μg/mL	Human IL-8 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human IL-8 concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>10</td><td>0.05</td></tr><tr><td>20</td><td>0.1</td></tr><tr><td>50</td><td>0.2</td></tr><tr><td>100</td><td>0.4</td></tr><tr><td>200</td><td>0.8</td></tr><tr><td>500</td><td>1.5</td></tr><tr><td>1000</td><td>2.5</td></tr><tr><td>2000</td><td>4.0</td></tr></tbody></table>	Human IL-8 concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	2.5	2000	4.0
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ELISA Detection	1:1000-1:10000	Human IL-8 Detection Antibody (Biotin)																			

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

## Background

Interleukin 8 (IL-8), also known as CXCL8, which is a member of the CXC chemokine family. This chemokine is secreted by a variety of cell types including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, and various tumor cell lines in response to inflammatory stimuli. IL-8 has two primary functions. It induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of infection. IL-8 also induces phagocytosis once they have arrived. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. IL-8 is also known to be a potent promoter of angiogenesis. IL-8 has been associated with tumor angiogenesis, metastasis, and poor prognosis in breast cancer. IL-8 may present a novel therapeutic target for estrogen driven breast carcinogenesis and tumor progression.

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