

Human IL-8 ELISA Kit | IL-8 elisa kit

IL-8 Human ELISA Kit

CATALOG # AAA13498	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

IL-8; IL-8 Human ELISA Kit; Human IL-8; IL-8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	15.6 pg/ml-1000 pg/ml (body fluids, tissue lysates or cell culture supernates) 7.8 pg/ml-500 pg/ml (human serum, plasma)
Sensitivity	< 1 pg/ml
Applicable Applications for IL-8 elisa kit	ELISA
Application Notes	For quantitative detection of IL-8 in human serum, plasma, body fluids, tissue lysates or cell culture supernatants.
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve										
Results of a typical standard run of a Human IL-8 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)										
X	Pg/ml	0	15.6	31.2	62.5	125	250	500	1000	
Y	OD450	0.038	0.076	0.108	0.185	0.316	0.644	1.187	2.316	

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-8 elisa kit

Background: Interleukin-8 (IL8) is a member of the CXC chemokine family. It is proinflammatory and primarily mediates the activation and migration of neutrophils into tissue from peripheral blood. It produced by macrophages, and also synthesized by endothelial cells. IL-8 is one of the major mediators of the inflammatory response. It is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. Primary function of IL-8 is the induction of chemotaxis in its target cells, and it also recruits neutrophils to phagocytose the antigen, which triggers the antigen pattern toll-like receptors. IL-8 is often associated with inflammation. As an example, it has been cited as a proinflammatory mediator in gingivitis and psoriasis.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-8 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-8 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL-8 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-8 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47523124
NCBI GeneID	396880
NCBI Accession #	NP_999032.1
NCBI GenBank Nucleotide #	NM_213867.1
UniProt Accession #	P26894; P22951
Molecular Weight	11,633 Da
NCBI Official Full Name	interleukin-8
NCBI Official Symbol	IL8
NCBI Official Synonym Symbols	CXCL8; AMCF-I
NCBI Protein Information	interleukin-8; IL-8; C-X-C motif chemokine 8; alveolar macrophage chemotactic factor I; alveolar macrophage-derived chemotactic factor-I
UniProt Protein Name	Interleukin-8
UniProt Gene Name	IL8
UniProt Synonym Gene Names	CXCL8; IL-8; AMCF-I
UniProt Entry Name	IL8_PIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/il-8/13498>