

Human IL-8/CXCL8 ELISA Kit | IL-8/CXCL8 elisa kit

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CATALOG #
AAA247875

REACTIVITY
Human

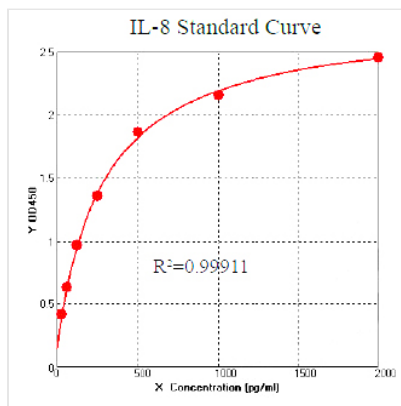
PRODUCT SYNONYMS

IL-8/CXCL8; Human IL-8/CXCL8 ELISA kit; IL-8/CXCL8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Capture antibody and detection antibody respectively identify different epitopes of the antigen, which maximizes the specificity of the reaction. No cross-reaction exists between the homologous cytokines.
Assay Type	Sandwich
Intra-assay Precision	0.8-5.5
Inter-assay Precision	2.0-12

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-8/CXCL8 elisa kit	Background: Interleukin-8 (IL-8), also known as chemokine CXCL8, is a cytokine secreted by macrophages and epithelial cells. In recent years, people have found that IL-8 is almost involved in the whole reproductive process of mammals, such as ovulation, corpus luteum formation, endometrial proliferation, decidualization, embryo implantation and growth and development. Many clinical studies have shown that IL-8 is also related to some reproductive pathological processes. IL-8 works by binding to its specific receptor and triggering a series of biological events. IL-8 was initially characterized by its leukocyte chemotactic activity. Now it is known that IL-8 also has tumorigenic and angiogenic properties. This chemokine is secreted by a variety of cell types, including monocytes / macrophages, T cells, neutrophils, fibroblasts, endothelial cells and various tumor cell lines in response to inflammatory stimuli (IL1, TNF, LPS, etc.). At the same time, IL-8 / CXCL8 also has a wide range of effects on the above various types of cells, indicating that IL-8 / CXCL8 plays a crucial role in various pathological conditions such as chronic inflammation and cancer. Principle of the Assay: IL-8 ELISA kit is applied to the solid phase sandwich Enzyme Linked Immunosorbent Assay. The microtiter plate has been pre-coated with capture antibody which specific to IL-8. Standards or samples are then added to the microtiter plate wells and IL-8 if present, will bind to the antibody pre-coated wells. Then a biotin-conjugated detection antibody specific for IL-8 is added to the wells to form a capture antibody-antigen-detection antibody sandwich complex. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells, and then a TMB substrate solution is added to the wells to incubate. TMB substrate solution turns blue after the oxidation of HRP, and finally turns to yellow immediately after adding the stop solution. Color of TMB substrate positively correlated with total IL-8 bound in the initial steps. The color is measured by spectrophotometrically with wavelength of 450nm. The concentration of IL-8 in samples is then determined by comparing the O.D. of the samples to the standard curve.
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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-cxcl8/247875>