

## Product datasheet for **PP1030P2**

### **IL8 (CXCL8) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, FN, IF, IHC, WB
Recommended Dilution:	<p><b>Immunohistochemistry on Paraffin Sections:</b> 1.0 µg/ml for two hours at RT or 0.25 µg/ml overnight at 4°C. An HRP labeled polymer detection system was used with a non-alcohol soluble AEC chromogen and a proteinase K antigen retrieval. Optimal concentrations and conditions may vary.</p> <p><b>Neutralization:</b> To yield one-half maximal inhibition (ND50) of the biological activity of human IL-8 (100 ng/ml), a concentration of 2-3 µg/ml of this antibody is required.</p> <p><b>Indirect ELISA:</b> To detect Human IL-8 by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2-0.4 ng/well of recombinant Human IL-8.</p> <p><b>Sandwich ELISA:</b> To detect Human IL-8 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with Biotinylated Anti-Human IL-8 (Cat.-No PP1030B1 or PP1030B2) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human IL-8.</p> <p><b>Western Blot:</b> To detect Human IL-8 use a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human IL-8 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.</p> <p><b>Immunofluorescence:</b> It is recommended to use the antibody at 2.0 µg/ml overnight at 4°C followed by a fluorescent labeled secondary antibody.</p>
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Human Interleukin 8 (Cat.-No PA081)
Specificity:	Highly specific for Human Interleukin 8 (IL-8). Other species not tested.
Formulation:	<p>PBS, pH 7.2 without preservatives</p> <p>State: Aff - Purified</p> <p>State: Lyophilized (sterile filtered) purified Ig fraction</p>
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.



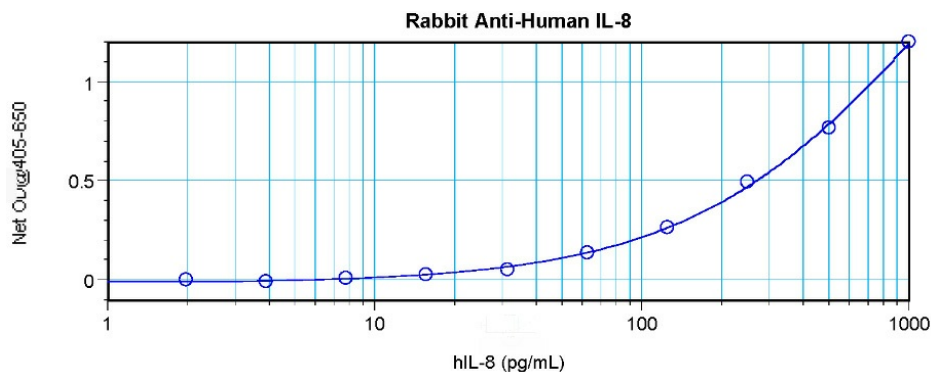
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<b>Purification:</b>	Affinity Chromatography employing immobilized hIL-8 matrix
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	C-X-C motif chemokine ligand 8
<b>Database Link:</b>	<a href="#">Entrez Gene 3576 Human P10145</a>

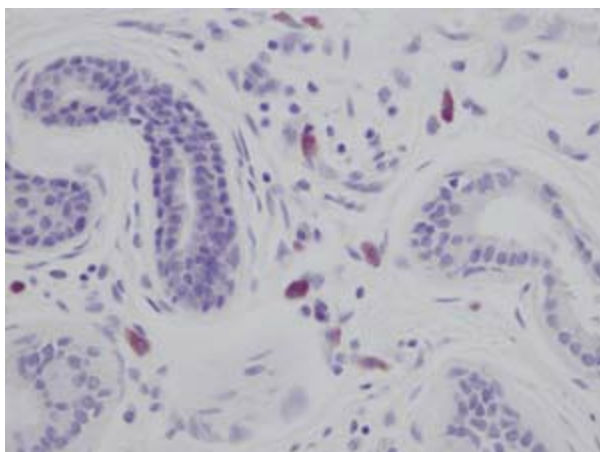
**Background:** IL8 is a member of the CXC chemokine family. This family of small basic heparan-binding proteins are proinflammatory and primarily mediate the activation and migration of neutrophils into tissue from peripheral blood. This chemokine is one of the major mediators of the inflammatory response and is secreted by several cell types in response to an inflammatory stimulus. It functions as a chemoattractant, and is also a potent angiogenic factor. IL8 attracts neutrophils, basophils, and T-cells, but not monocytes. Cystic fibrosis (CF) is characterized by severe lung inflammation. The inflammatory process is believed to be caused by massive overproduction of the proinflammatory protein IL8, and the high levels of IL8 in the CF lung are therefore believed to be the central mechanism behind CF lung pathophysiology.

**Synonyms:** CXCL8, Protein 3-10C, Emotakin, GCP1, MDNCF, MONAP, NAP1

## Product images:



Sandwich ELISA using Interleukin-8 / IL8 antibody  
Cat.-No [PP1030P]



Immunohistochemistry: The Interleukin-8 antibody stained formalin-fixed, paraffin-embedded sections of normal human skin. The recommended concentrations are 1.0 ug/ml for two hours at room temperature or 0.25 ug/ml overnight at 4°C. An HRP-labeled polymer detection system was used with a non-alcohol soluble AEC chromogen and a proteinase K antigen retrieval.