

## IL-8 Monoclonal Antibody (NYR-HIL8)

Product Specifications	
<b>Catalog Number:</b>	905-110
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Species Reactivity:</b>	Human; does not cross react with murine IL-8
<b>Applications:</b> <i>The optimal dilution for a specific application must be determined by the investigator</i>	<b>WB:</b> Yes <b>IP:</b> Yes <b>IHC:</b> Yes <b>Direct ELISA:</b> Yes* <i>*1:20,000 will yield &gt;1.0 OD using alkaline phosphatase conjugated rabbit anti-mouse Ig.</i>
<b>Concentration:</b>	1mg/mL upon reconstitution with sterile H <sub>2</sub> O.
<b>Purification:</b>	Ion exchange chromatography
<b>Format:</b>	Lyophilized in PBS
<b>Storage:</b>	Store lyophilized at 4°C; After reconstitution, aliquot and store at -20°C (avoid repeated freeze/thaw cycles).
<b>Immunogen:</b>	Recombinant human IL-8
<b>Related Products:</b>	
<b>SAB-100</b>	Goat anti-Mouse IgG (Fab) Polyclonal Antibody, HRP Conjugate.
<b>SAB-101</b>	Goat anti-Mouse IgG Polyclonal Antibody, AP Conjugate.
<b>900-156</b>	Interleukin-8 (human) EIA Kit
<b>900-077</b>	MCP-1 (rat) EIA Kit

### Background:

Interleukin-8 (IL-8) is a chemokine, a member of the cytokine family that displays chemotactic activity for specific types of leukocytes, primarily neutrophils and T-cells. IL-8 is a CXC chemokine in which an amino acid is present between the first two of four highly conserved cysteine residues. Chemokines are basic proteins with low molecular weights and an affinity for heparin. The human IL-8 cDNA sequence encodes for a protein of 99 amino acids that undergoes post-translational processing to yield a protein with 77 amino acids and a variant form with 72 amino acids. IL-8 binds to the Duffy antigen on red blood cells and the CXCR1 and CXCR2 G protein coupled receptors<sup>1</sup>. Human IL-8 functionality is homologous with mouse, guinea pig, rat, and rabbit neutrophils. IL-8 is present in the synovial fluids of patients with rheumatoid arthritis and has been purified from plaque psoriasis scales<sup>2</sup>. It is associated also with sepsis, asthma and glomerulonephritis<sup>3,4</sup>. IL-8 regulates leukocyte recruitment and trafficking and also has mitogenic and anti-angiogenic properties<sup>5</sup>.

#### References:

- Zhang, M. and Tracey, K. (1988) *The Cytokine Handbook*. 3rd Ed. San Diego: Academic Press.
- Waage, A., *et al.* (1989) *J Exp Med.* **169**, 333-338.
- Cope, A.P. and Brennan, F.M., (1992) *Br J Rheumatol.* **31**, 721-722.
- Beutler, B., *et al.* (1985) *Nature* **316**, 552-554.
- Inoue, K., *et al.* (2000) *Clin Cancer Res.* **6**, 2104-2119.