

## Anti-Human IL-8 Azide Free

### PRODUCT SPECIFICATIONS

<b>Catalogue N°</b>	855.080.000 - 200µg / 200µl 855.080.005 - 500µg / 500µl
<b>Target species</b>	Human
<b>Specificity</b>	Recognises both natural and recombinant human IL-8
<b>Clone</b>	B-K8
<b>Application</b>	ELISA Flow Cytometry Functional assay
<b>Hybridoma</b>	Myeloma X63/AG.8653 x Balb/c spleen cells
<b>Immunisation</b>	Recombinant human IL-8
<b>Quantity</b>	200µg or 500µg (Discovery Size also available please enquire)
<b>Isotype</b>	Mouse IgG1 Kappa light chain
<b>Format</b>	Phosphate-buffered saline. Sterile-filtered through 0.22 µm. Carrier and preservative free
<b>Storage</b>	Stable at +2-8°C for 12 months. For longer storage freeze aliquots.
<b>Biological Activity</b>	Inhibits IL-8 induced chemotaxis of human neutrophils
<b>Synonym</b>	CXCL8

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With over 30 years experience and extensive expertise, we are committed to providing excellence in Monoclonal Antibody and Immunoassay development.

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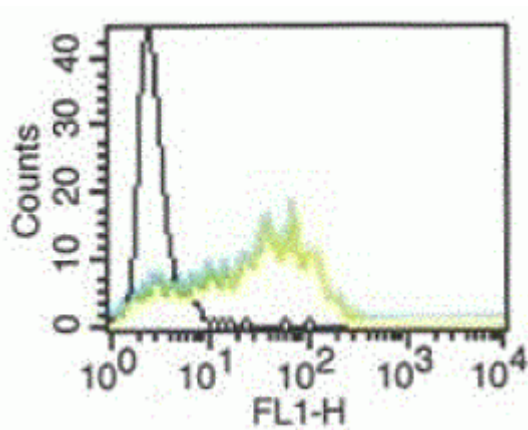
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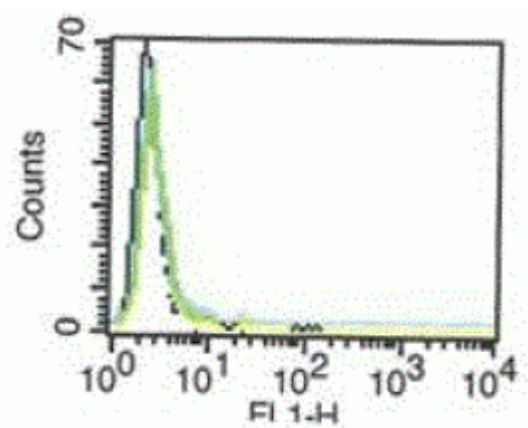
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The graph on the left represents activated monocytes marked with B-K8.



The graph on the right shows B-K8 with non-activated monocytes. In the two cases, the dotted line represents the IgG1 isotype control.

## REFERENCES

Srivani, R. et al., Current Science,2003; 84(3):434-438

Bünemann, E. et al.,Eur J Med Res., 2018 Jan 16;23(1):4. - [Pubmed link](#)

Schrufer, R. et al., Am J Physiol Heart Circ Physiol.,2005; 288(3): H1186-92. - [Pubmed link](#)

Ulfman, L. H. et al., J Immunol.,2001; 166(1): 588-95. - [Pubmed link](#)

## BACKGROUND

Interleukin 8 (IL-8) or CXCL8, Monocyte-Derived Neutrophil Chemotactic Factor (MDNCF), Neutrophil Activating Factor (NAF) and NAD-P1 is a chemokine secreted by monocytes, macrophages and endothelial cells. IL-8 chemoattracts and activates neutrophils.

The predominant form of IL-8 is a 8.4kDa protein containing 72 amino acid residues, which includes five additional N-Terminal amino-acids. IL-8 contains the four conserved cysteine residues present in CXC chemokines and also contains the "ELR" motif common to CXC chemokines that binds to CXCR1 and CXCR2.

Data indicate that IL-8 may participate in the pathogenesis of rheumatoid arthritis via the induction of neutrophil-mediated cartilage damage, and psoriasis. A causative involvement of IL-8 is found within a broad range of clinico-pathological conditions : adult respiratory distress syndrome, asthma, bacterial infections, bladder cancer, graft rejection and influenza infection, due to the now known biological properties of IL-8. This cytokine especially in combinations with other

neutrophil activating agents, may prove helpful in the treatment of patients suffering from granulocytopenia, severe infections against which antibiotics are not effective, and immunodeficiency caused by HIV.

**Version 11 - 06.19**

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