

# IL-8 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1013a

## Product Information

<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P10145</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3E4D8
<b>Isotype</b>	IgG1.kappa
<b>Calculated MW</b>	11098
<b>Description</b>	Interleukin-8 (IL-8) is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. IL-8 is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. IL-8 and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q.
<b>Immunogen</b>	Purified recombinant fragment of human IL-8 expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS containing 0.03% sodium azide.

## Additional Information

<b>Gene ID</b>	3576
<b>Other Names</b>	Interleukin-8, IL-8, C-X-C motif chemokine 8, Chemokine (C-X-C motif) ligand 8, Emotakin, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil chemotactic factor, MDNCF, Monocyte-derived neutrophil-activating peptide, MONAP, Neutrophil-activating protein 1, NAP-1, Protein 3-10C, T-cell chemotactic factor, MDNCF-a, GCP/IL-8 protein IV, IL8/NAP1 form I, Interleukin-8, (Ala-IL-8)77, GCP/IL-8 protein II, IL-8(1-77), IL8/NAP1 form II, MDNCF-b, IL-8(5-77), IL-8(6-77), (Ser-IL-8)72, GCP/IL-8 protein I, IL8/NAP1 form III, Lymphocyte-derived neutrophil-activating factor, LYNAP, MDNCF-c, Neutrophil-activating factor, NAF, IL-8(7-77), GCP/IL-8 protein V, IL8/NAP1 form IV, IL-8(8-77), GCP/IL-8 protein VI, IL8/NAP1 form V, IL-8(9-77), GCP/IL-8 protein III, IL8/NAP1 form VI, CXCL8, IL8
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	IL-8 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

## Protein Information

<b>Name</b>	CXCL8
<b>Synonyms</b>	IL8
<b>Function</b>	Chemotactic factor that mediates inflammatory response by attracting neutrophils, basophils, and T-cells to clear pathogens and protect the host from infection (PubMed: <a href="#">18692776</a> , PubMed: <a href="#">7636208</a> ). Also plays an important role in neutrophil activation (PubMed: <a href="#">2145175</a> , PubMed: <a href="#">9623510</a> ). Released in response to an inflammatory stimulus, exerts its effect by binding to the G-protein-coupled receptors CXCR1 and CXCR2, primarily found in neutrophils, monocytes and endothelial cells (PubMed: <a href="#">1840701</a> , PubMed: <a href="#">1891716</a> ). G-protein heterotrimer (alpha, beta, gamma subunits) constitutively binds to CXCR1/CXCR2 receptor and activation by IL8 leads to beta and gamma subunits release from Galpha (GNAI2 in neutrophils) and activation of several downstream signaling pathways including PI3K and MAPK pathways (PubMed: <a href="#">11971003</a> , PubMed: <a href="#">8662698</a> ).
<b>Cellular Location</b>	Secreted.

## References

1. Baggiolini M. et al. 1991. FEBS Lett. 307:97-101. 2. Mukaida N. et al. 1989. J.Immunol.143:1366-1371.

## Images

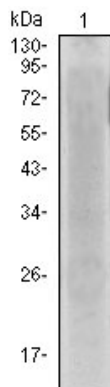


Figure 1: Western blot analysis using IL8 mouse mAb against IL8 recombinant protein.

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