

## DESCRIPTION

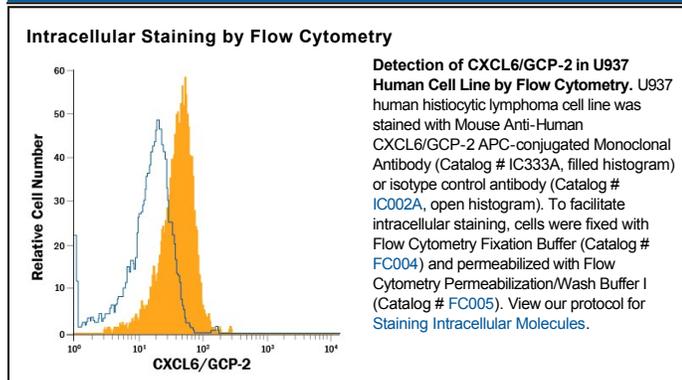
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CXCL6/GCP-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.04% cross-reactivity with recombinant human (rh) NAP-2, rhGRO $\alpha$ , rhGRO $\beta$ , rhBLC, rhENA-78, recombinant mouse (rm) LIX, rmMIP-2, rhIL-8, rhIP-10, rhMIG, rhSDF-1 $\alpha$ , and rhSDF-1 $\beta$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 60910
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CXCL6/GCP-2 Val40-Asn114 Accession # P80162
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

GCP-2 (Granulocyte Chemotactic Protein-2) also known as CXCL6, is a 6-8 kDa CXC chemokine initially isolated as a neutrophil chemoattractant from the MG-63 osteosarcoma cell line. Among human CXC chemokines, GCP-2 is most closely related to ENA-78 (78% amino acid (aa) sequence identity in the mature peptide region). The structure and sequence of the genes for human GCP-2 and ENA-78 exhibit close similarity suggesting the two genes may have originated from a gene duplication. In mouse LIX (LPS-Induced CXC chemokine) was initially cloned as a gene induced by LPS in fibroblasts. The predicted LIX protein sequence is identical to a previously purified mouse protein designated mouse GCP-2 based on its amino sequence similarity (60% sequence identity) to human GCP-2. In general, however, LIX and human GCP-2 are considered orthologs.

Human GCP-2 cDNA encodes a propeptide of 114 amino acid residues with a predicted 37 aa residue signal peptide and 77 aa residue mature protein. Several forms of natural GCP-2 have been isolated from MG-63 conditioned media, indicating that GCP-2 undergoes considerable processing at both the N- and C-termini. GCP-2 is secreted as a homodimer.

Human GCP-2 has been shown to chemoattract and activate neutrophils, but not eosinophils and monocytes. It is secreted by macrophages and select epithelium. It is likely that GCP-2 activities on cells are mediated via both CXCR1 and CXCR2. By contrast, GCP-2 is known to act on bacteria as an antimicrobial.