**DESCRIPTION**

**Species Reactivity** Human

**Specificity** Detects human IL-8/CXCL8 in ELISAs and Western blots. In Western blots, 100% cross-reactivity with recombinant porcine IL-8/CXCL8 and no cross-reactivity with recombinant rat CXCL3/CINC-2α is observed.

**Source** Monoclonal Mouse IgG1 Clone # 6217

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** E. coli-derived recombinant human IL-8/CXCL8 Ser28-Ser99 Accession #: P10145

**Endotoxin Level** <0.10 EU per 1 μg of the antibody by the LAL method.

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**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

<table>
<thead>
<tr>
<th>Sample Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot THP-1 human acute monocytic leukemia cell line treated (+) with PMA and LPS</td>
<td>3 µg/mL</td>
</tr>
<tr>
<td>Immunocytochemistry Human peripheral blood mononuclear cells treated with LPS, fixed with paraformaldehyde, and permeabilized with saponin</td>
<td>0.25 µg/10^6 cells</td>
</tr>
<tr>
<td>Simple Western Human PBMC conditioned media treated with LPS</td>
<td>50 µg/mL</td>
</tr>
</tbody>
</table>

**Human IL-8/CXCL8 Sandwich Immunoassay**

- **Reagent**
  - Human IL-8/CXCL8 Antibody (Catalog # MAB208)
  - Human IL-8/CXCL8 Biotinylated Antibody (Catalog # BAF208)
  - Recombinant Human IL-8/CXCL8 (Catalog # 208-IL)

- **CyTOF-ready** Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

- **Neutralization** Measured by its ability to neutralize IL-8/CXCL8-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND50) is typically 0.08-0.4 µg/mL in the presence of 20 ng/mL Recombinant Human IL-8/CXCL8.

**DATA**

**Western Blot**

Detection of Human IL-8/CXCL8 by Western Blot. Western blot shows lysates of THP-1 human acute monocytic leukemia cell line untreated (-) or treated (+) with 200 nM PMA and 10 ng/mL LPS for 24 hours and 3 hours. PVDF membrane was probed with 3 µg/mL of Mouse Anti-Human IL-8/CXCL8 Monoclonal Antibody (Catalog # MAB208) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IL-8/CXCL8 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

**Immunocytochemistry**

IL-8/CXCL8 in Human PBMCs. IL-8/CXCL8 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human IL-8/CXCL8 Monoclonal Antibody (Catalog # MAB208) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.
Detection of Human IL-8/CXCL8 by Simple Western™. Simple Western lane view shows human PBMC conditioned media untreated (-) or treated (+) with 1 μg/mL LPS for 24 hrs, loaded at 0.2 mg/mL. A specific band was detected for IL-8/CXCL8 at approximately 8 kDa (as indicated) using 50 µg/mL of Mouse Anti-Human IL-8/CXCL8 Monoclonal Antibody (Catalog # MAB208). This experiment was conducted under reducing conditions and using the 2-40 kDa separation system.

Neutralization

Chemotaxis Induced by IL-8/CXCL8 and Neutralization by Human IL-8/CXCL8 Antibody. Recombinant Human IL-8/CXCL8 (Catalog # 208-IL) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human IL-8/CXCL8 (20 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human IL-8/CXCL8 Monoclonal Antibody (Catalog # MAB208). The ND50 is typically 0.08-0.4 µg/mL.

PREPARATION AND STORAGE

Reconstitution
Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

Stability & Storage
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CXCL8, also known as IL-8, is a CXC chemokine that is a potent chemoattractant for neutrophils and has a wide range of other pro-inflammatory effects.