

# Human CXCL1/2/3/GRO Pan Specific Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 31716

Catalog Number: MAB276

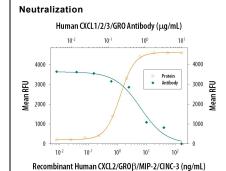
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CXCL1/2/3 in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 31716		
Purification	Protein A or G purified from ascites		
Immunogen	E. coli-derived recombinant human CXCL2 Ala35-Asn107 Accession # P19875		
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	Sample
Western Blot	1 μg/mL	Recombinant Human CXCL1/GROα/KC/CINC-1 (Catalog # 275-GR) Recombinant Human CXCL2/GROβ/MIP-2/CINC-3 (Catalog # 276-GB)
		Recombinant Human CXCL3/GROy/CINC-2/DCIP-1 (Catalog # 277-GG)
Neutralization	Measured by its ability to neutralize CXCL1/2/3/GRO-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.5-2.5 μg/mL, 0.15-0.75μg/mL, and 0.1-0.5 μg/mL for Recombinant Human (rh) CXCL1, rhCXCL2, and rhCXCL3, respectively.	

#### DATA



Chemotaxis Induced by CXCL2/GROß and Neutralization by Human CXCL1/2/3/GRO Antibody. Recombinant Human CXCL2/GROβ (Catalog # 176-GB) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 in a dosedependent 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 CXCL2/GROβ (6 ng/mL) is neutralized (green line) by increasing concentrations of Human CXCL1/2/3/GRO Monoclonal Antibody (Catalog # MAB276). The  $\mathrm{ND}_{50}$  is typically 0.15-0.75 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

CXCL1, CXCL2 (MIP-2 $\alpha$ ), and CXCL3 (MIP-2 $\beta$ ) are members of the alpha (C-X-C) subfamily of chemokines and are now designated GRO $\alpha$ , GRO $\beta$ , and GRO $\gamma$ , respectively. Mature CXCL1/2/3 proteins bind with high affinity to the IL-8 receptor type B and are potent neutrophil attractants and activators.

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