

## DESCRIPTION

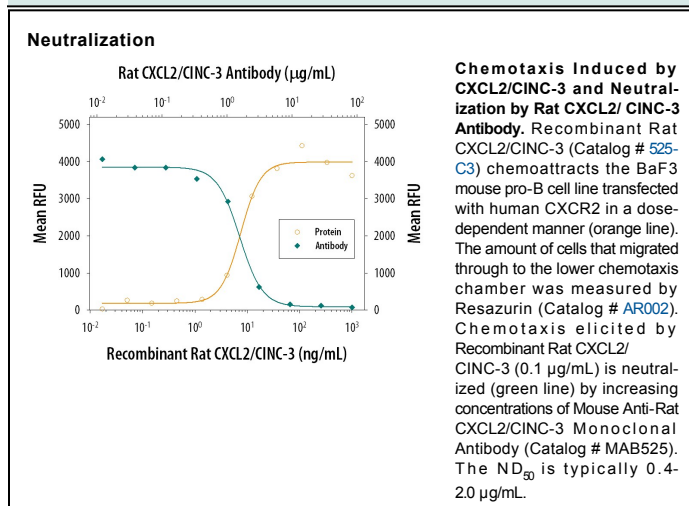
<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat CXCL2/GROβ/MIP-2/CINC-3 in ELISAs and Western blots. In sandwich ELISAs, less than 0.5% cross-reactivity with recombinant rat (rr) CXCL3 and less than 0.1% cross-reactivity with rrCXCL1, rrCINC-2α, recombinant mouse (rm) CXCL9 or rmCXCL2 is observed. In Western blots, less than 3% cross-reactivity with recombinant human (rh) CXCL8, recombinant porcine CXCL8, or rrCINC-2α and no cross-reactivity with rrCXCL1, 3, rmCXCL1, 2, 6, 9, 10, 12, rhCXCL1, 2, 3, 5, 6, 7, 9, 10, 11, 12 or 13 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 123802
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant rat CXCL2/GROβ/MIP-2/CINC-3 Ser32-Asn100 Accession # P30348
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
<b>Western Blot</b>	1 µg/mL	Recombinant Rat CXCL2/GROβ/MIP-2/CINC-3 (Catalog # 525-C3)
<b>Rat CXCL2/CINC-3 Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	2-8 µg/mL	Rat CXCL2/GROβ/MIP-2/CINC-3 Antibody (Catalog # MAB525)
<b>ELISA Detection Standard</b>	0.1-0.4 µg/mL	Rat CXCL2/GROβ/MIP-2/CINC-3 Biotinylated Antibody (Catalog # BAF525) Recombinant Rat CXCL2/GROβ/MIP-2/CINC-3 (Catalog # 525-C3)
<b>Neutralization</b>		Measured by its ability to neutralize CXCL2/GROβ/MIP-2/CINC-3-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.4-2.0 µg/mL in the presence of 0.1 µg/mL Recombinant Rat CXCL2/GROβ/MIP-2/CINC-3.

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Cytokine-induced neutrophil chemoattractant 3 (CINC-3) has been found to be expressed by cytokine-stimulated rat alveolar macrophages and fibroblasts. Based on its protein and DNA sequences, CINC-3 (also known as rat MIP-2, GRO $\beta$  and CXCL2) is a member of the alpha (CXC) subfamily of chemokines.

CINC-3 cDNA encodes a 100 amino acid (aa) residue precursor protein with a 31 aa signal peptide that is cleaved to yield a 69 aa mature secreted protein. The protein sequence of rat CINC-3 shares approximately 88% identity with murine MIP-2. Characteristic of ELR containing CXC chemokines, CINC-3 is known to be a potent chemotactic factor for rat neutrophils *in vitro* and *in vivo*. On the basis of cross-desensitization results of the various CINC proteins, it has been postulated that rat neutrophils have at least two classes of CINC receptors: a class of CINC-3 specific receptors as well as a second common receptor shared by all CINCs.

## References:

1. Nakagawa, H. *et al.* (1994) *Biochem. J.* **301**:545.
2. Huang, S. *et al.* (1992) *Am. J. Pathol.* **141**:981.