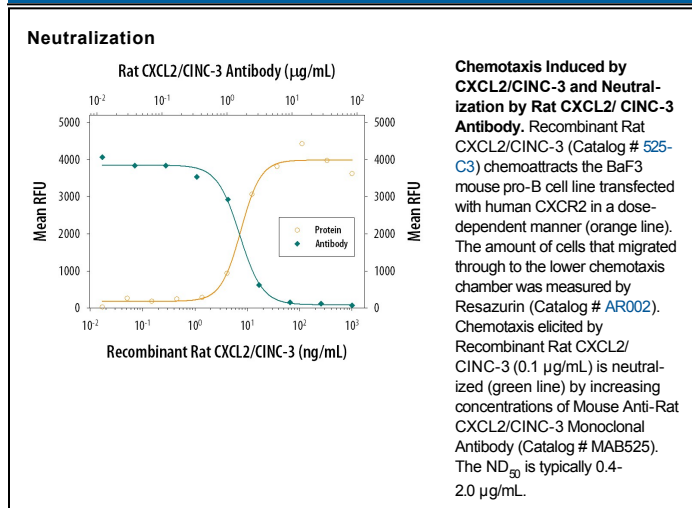


DESCRIPTION	
Species Reactivity	Rat
Specificity	Detects rat CXCL2/GROβ/MIP-2/CINC-3 in ELISAs and Western blots. In sandwich ELISAs, less than 0.5% cross-reactivity with recombinant rat (rr) CXCL3 and less than 0.1% cross-reactivity with rrCXCL1, rrCINC-2α, recombinant mouse (rm) CXCL9 or rmCXCL2 is 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.
Source	Monoclonal Mouse IgG _{2B} Clone # 123802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat CXCL2/GROβ/MIP-2/CINC-3 Ser32-Asn100 Accession # P30348
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 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 Rat CXCL2/GROβ/MIP-2/CINC-3 (Catalog # 525-C3)
Rat CXCL2/CINC-3 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Rat CXCL2/GROβ/MIP-2/CINC-3 Antibody (Catalog # MAB525)
ELISA Detection	0.1-0.4 µg/mL	Rat CXCL2/GROβ/MIP-2/CINC-3 Biotinylated Antibody (Catalog # BAF525)
Standard		Recombinant Rat CXCL2/GROβ/MIP-2/CINC-3 (Catalog # 525-C3)
Neutralization	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 ₅₀) 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

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. <ul style="list-style-type: none"> • 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

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 β 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 CINC3s.

References:

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