

DESCRIPTION

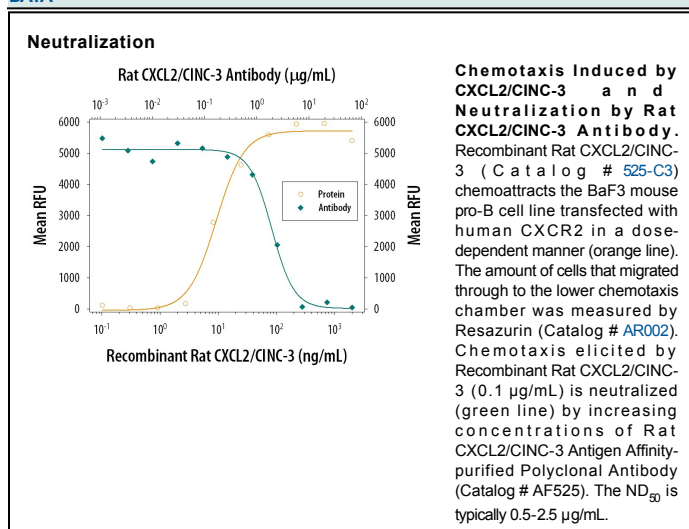
Species Reactivity	Rat
Specificity	Detects rat CXCL2/GROβ/MIP-2/CINC-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 20% cross-reactivity with recombinant rat (rr) CINC-2α is observed, 15% cross-reactivity with rrCINC-2β, recombinant human (rh) GROα, rhGROβ, rhGROγ is observed and 5% cross-reactivity with rrCINC-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant rat CXCL2/GROβ/MIP-2/CINC-3 Ser32-Asn100 Accession # P30348
Endotoxin Level	<0.20 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	0.1 µg/mL	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 0.5-2.5 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 0.2 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 CINCs.

References:

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