

DESCRIPTION

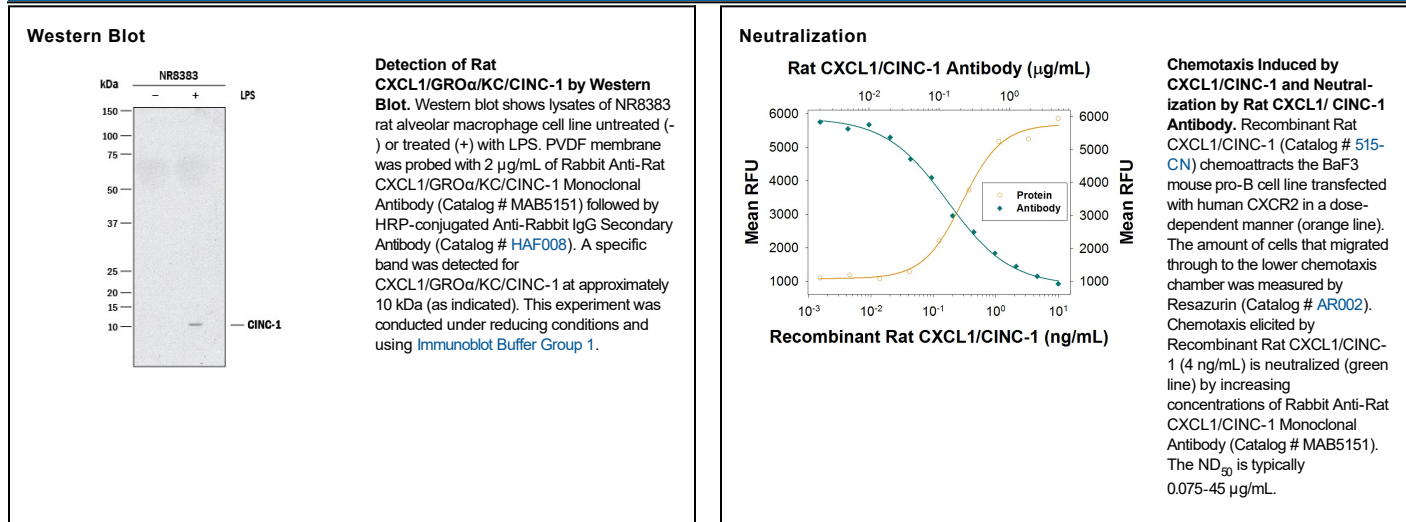
Species Reactivity	Rat
Specificity	Detects rat CXCL1/GRO α /KC/CINC-1 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2176C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat CXCL1/GRO α /KC/CINC-1 Ala25-Lys96 Accession # P14095
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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	2 μ g/mL	See Below
Neutralization		Measured by its ability to neutralize CXCL1/GRO α /KC/CINC-1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND ₅₀) is typically 0.075-0.45 μ g/mL in the presence of 4 ng/mL Recombinant Rat CXCL1/GRO α /KC/CINC-1.

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 1 (CINC-1) was originally purified from media conditioned by IL-1 β stimulated rat kidney epithelioid cells (NRK-52E). On the basis of its protein and DNA sequences, CINC-1 is a member of the alpha (CXC) subfamily of chemokines, designated CXCL1. Three additional rat CXC chemokines (CINC-2 α , CINC-2 β , CINC-3/MIP-2), sharing approximately 63-67% amino acid sequence identity with CINC-1, have been identified. The protein sequence of rat CINC-1 is also 68%, 71%, and 69% identical to that of human GRO- α , GRO- β , and GRO- γ , respectively. Based on their sequence homology, it has been suggested that CINC-1 is the rat counterpart of human GROs. CINC-1 is also the counterpart of mouse KC. Rat CINC-1 cDNA encodes a 96 amino acid residue precursor protein from which the amino-terminal 24 amino acid residues are cleaved to generate the mature CINC-1. Similar to other alpha chemokines, rat CINC-1 is a potent neutrophil attractant and activator and has been shown to play an important role in the infiltration of neutrophils into inflammatory sites in rats.