

DESCRIPTION

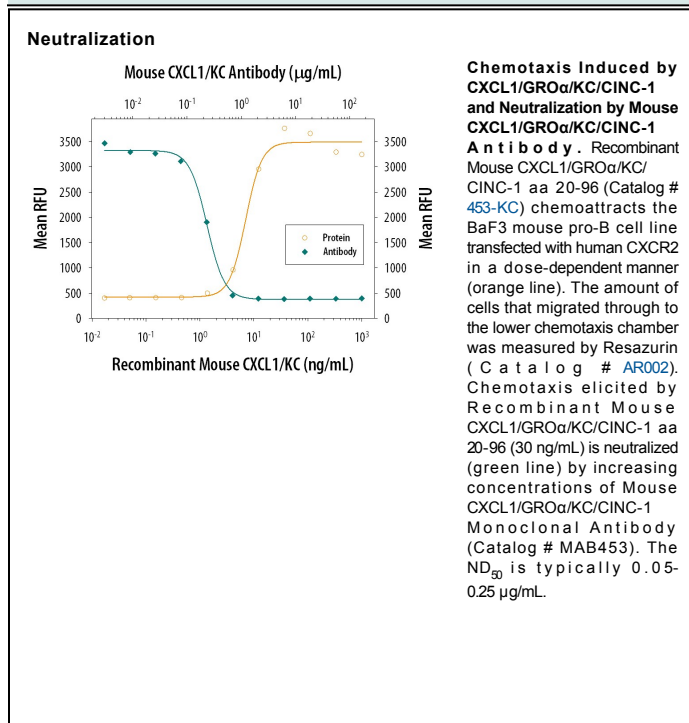
Species Reactivity	Mouse
Specificity	Detects mouse CXCL1/GRO α /KC/CINC-1 in direct ELISAs and Western blots. Shows 100% cross-reactivity with recombinant human (rh) CXCL2, less than 40% cross-reactivity with recombinant rat (rr) CINC-1, and no cross-reactivity with rrCINC-3, rhCXCL3, rhCXCL5, rhCXCL6, or recombinant mouse (rm) CXCL6.
Source	Monoclonal Rat IgG _{2A} Clone # 48415
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL1/GRO α /KC/CINC-1 Arg20-Lys96 Accession # P12850
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 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	1 μ g/mL	Recombinant Mouse CXCL1/GRO α /KC/CINC-1 aa 20-96 (Catalog # 453-KC)
Mouse CXCL1/KC Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Mouse CXCL1/GRO α /KC/CINC-1 Antibody (Catalog # MAB453)
ELISA Detection Standard	0.1-0.4 μ g/mL	Mouse CXCL1/GRO α /KC/CINC-1 Biotinylated Antibody (Catalog # BAF453) Recombinant Mouse CXCL1/GRO α /KC/CINC-1 aa 20-96 (Catalog # 453-KC)
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 0.05-0.25 μ g/mL in the presence of 30 ng/mL Recombinant Mouse CXCL1/GRO α /KC/CINC-1 aa 20-96.

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.

- 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, also known as KC and GRO alpha, is a CXC family chemokine that is expressed in fibroblasts, macrophages, and endothelial cells and interacts with CXCR2. CXCL1 is a potent neutrophil attractant and activator. It also promotes angiogenesis by inducing VEGF production by neutrophils. N-terminally truncated CXCL1 demonstrates increased potency in CXCR2 signaling. Mature mouse CXCL1 shares 96% and 64% aa sequence identity with rat and human CXCL1, respectively.