

DESCRIPTION

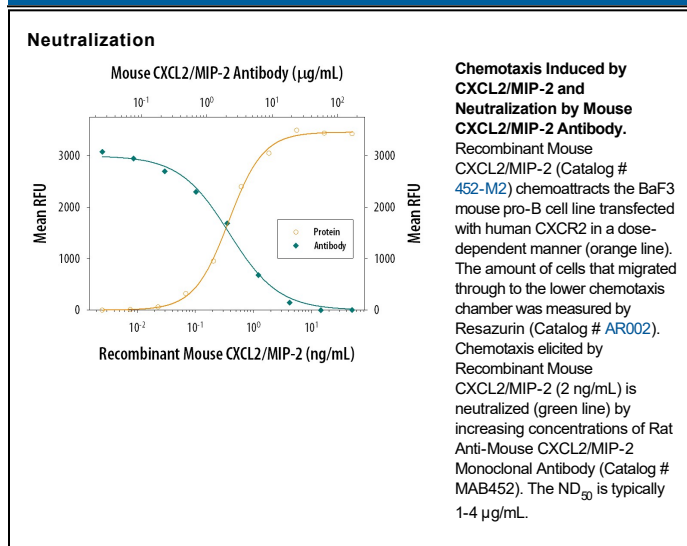
Species Reactivity	Mouse
Specificity	Detects mouse CXCL2 in ELISAs and Western blots. In ELISAs, does not cross-react with recombinant human (rh) CXCL2/GRO β , rhCXCL3/GRO γ , or recombinant mouse CXCL1/KC.
Source	Monoclonal Rat IgG _{2B} Clone # 40605
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL2/GRO β /MIP-2/CINC-3 Ala28-Asn100 Accession # P10889
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	1 μ g/mL	Recombinant Mouse CXCL2/GRO β /MIP-2/CINC-3 (Catalog # 452-M2) under non-reducing conditions only
Mouse CXCL2/MIP-2 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μ g/mL	Mouse CXCL2/GRO β /MIP-2/CINC-3 Antibody (Catalog # MAB452)
ELISA Detection	0.1-0.4 μ g/mL	Mouse CXCL2/GRO β /MIP-2/CINC-3 Biotinylated Antibody (Catalog # BAF452)
Standard		Recombinant Mouse CXCL2/MIP-2 (Catalog # 452-M2)
Neutralization	Measured by its ability to neutralize CXCL2/GRO β /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 1-4 μ g/mL in the presence of 2 ng/mL Recombinant Mouse CXCL2/GRO β /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

Macrophage Inflammatory Protein-2 (MIP-2) was originally identified as a heparin-binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. Based on its protein and DNA sequences, MIP-2 is a member of the alpha (C-X-C) subfamily of chemokines.

MIP-2 cDNA encodes a 100 amino acid residue precursor protein from which the amino-terminal 27 amino acid residues are cleaved to generate the mature MIP-2. The protein sequence of murine MIP-2 shows approximately 63% identity to that of murine KC, another murine alpha chemokine whose expression is induced by PDGF. In addition, the protein sequence of MIP-2 is also 60% identical to human GRO β and GRO γ . It has been suggested that mouse KC and MIP-2 are the homologs of the human GROs and rat CINCs.

Similarly to other alpha chemokines, murine MIP-2 is a potent neutrophil attractant and activator. MIP-2 and KC can bind the murine interleukin 8 type B receptor homologue with high affinity. The expression of MIP-2 was found to be associated with neutrophil influx in pulmonary inflammation and glomerulonephritis, suggesting that MIP-2 may contribute to the pathogenesis of inflammatory diseases.