

Mouse CXCL2/MIP-2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-452-NA

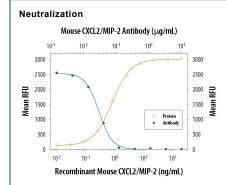
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse CXCL2/MIP-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) GROα, rhGROβ, rhGROγ, recombinant rat (rr) CINC-1, rrCINC-2α, rrCINC-2β, and rrCINC-3 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse CXCL2/MIP-2 Ala28-Asn100 Accession # P10889		
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.		

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 Mouse CXCL2/MIP-2 (Catalog # 452-M2)	
Immunocytochemistry	5-15 μg/mL	See Below	
Immunohistochemistry	5-15 μg/mL	Perfusion fixed frozen sections of mouse thymus	
Neutralization	Measured by its ability to neutralize CXCL2/MIP-2-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND ₅₀) is typically 0.015-0.075 μg/mL in the presence of 2 ng/mL Recombinant Mouse CXCL2/MIP-2.		

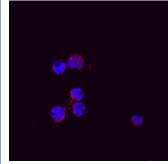
DATA



Chemotaxis Induced by CXCL2/MIP-2 and Neutralization by Mouse CXCL2/

MIP-2 Antibody. Recombinant Mouse CXCL2/MIP-2 (Catalog # 452-M2) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 in a dosedependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CXCL2/MIP-2 (2 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CXCL2/MIP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-452-NA). The ND₅₀ is typically 0.015-0.075 µg/mL.

Immunocytochemistry



CXCL2/MIP-2 in Mouse Splenocytes. CXCL2/MIP-2 was detected in immersion fixed mouse splenocytes stimulated with LPS and monensin using Goat Anti-Mouse CXCL2/MIP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-452-NA) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

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 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.

 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.

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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 GROβ and GROγ. 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.

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