

# Mouse CCL12/MCP-5 Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 147801 Catalog Number: MAB4281

DESCRIPTION					
Species Reactivity	Mouse				
Specificity	Detects mouse CCL12/MCP-5 in direct ELISAs.				
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 147801				
Purification	Protein A or G purified from hybridoma culture supernatant				
Immunogen	E. coli-derived recombinant mouse CCL12/MCP-5 Gly23-Gly104 Accession # Q62401				
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. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.				

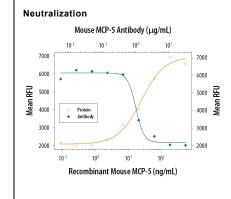
#### APPLICATIONS

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

Neutralization

Measured by its ability to neutralize CCL12/MCP-5-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR2A. The Neutralization Dose (ND $_{50}$ ) is typically 0.5-2.5  $\mu$ g/mL in the presence of 0.2  $\mu$ g/mL Recombinant Mouse CCL12/MCP-5.

### DATA



Chemotaxis Induced by CCL12/MCP-5 and Neutralization by Mouse CCL12/ MCP-5 Antibody. Recombinant Mouse CCL12/MCP-5 (Catalog # 428-P5) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR2A 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 CCL12/MCP-5 (0.2 µg/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse CCL12/MCP-5 Monoclonal Antibody (Catalog # MAB4281). The ND<sub>50</sub> is typically 0.5-2.5 µg/mL.

		ND STC	

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  $^\circ$ 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

CCL12, also called MCP-5, is expressed constitutively in the thymus and lymph nodes. Under inflammatory conditions, CCL12 expression is also induced in activated macrophages and mast cells. Mouse CCL12 encodes a 104 amino acid (aa) precursor protein with a 22 aa signal sequence that is cleaved to generate a 82 aa mature protein. Recombinant CCL12 is a potent chemoattractant for monocytes and lymphocytes but not neutrophils. CCL12 has been found to be a functional ligand for CCR2.

Rev. 2/7/2018 Page 1 of 1

