Human CCL15/MIP-1δ Antibody

Monoclonal Mouse IgG_1 Clone # 88119

Catalog Number: MAB3631

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL15/MIP-1δ in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human CCL1, 2, 3, 4, 5, 7, 8, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, recombinant mouse CCL1, 2, 3, 4, 5, 6, 7, 9, 11, 12, 17, 19, 20, 21, 22, 24, 25, or recombinant rat CCL20 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 88119
Purification	Protein A or G purified from ascites
Immunogen	*E. coli*-derived recombinant human CCL15/MIP-1δ Ser46-Ile113 Accession # Q16663
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.

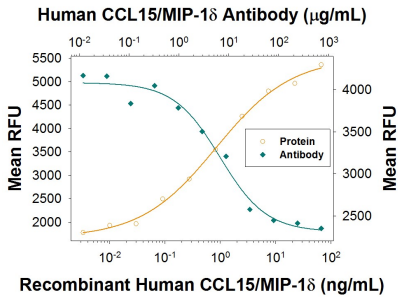
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human CCL15/MIP-1δ 92 aa (Catalog # 363-MG)
Neutralization	Measured by its ability to neutralize CCL15/MIP-1δ-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR1. The Neutralization Dose (ND_{50}) is typically 5-20 µg/mL in the presence of 1 ng/mL Recombinant Human CCL15/MIP-1δ 68 aa.	

DATA

Neutralization



Chemotaxis Induced by CCL15/MIP-1δ and Neutralization by Human CCL15/MIP-1δ Antibody. Recombinant Human CCL15/MIP-1δ (Catalog # 628-LK) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR1 in a dose-dependent 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 Human CCL15/MIP-1δ (1 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human CCL15/MIP-1δ Monoclonal Antibody (Catalog # MAB3631). The ND_{50} is typically 5-20 µg/mL.

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.

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BACKGROUND

CCL15, also called macrophage inflammatory protein 1 delta (MIP-1δ and Leukotactin-1 (LKN-1), is a CC chemokine with two additional cysteine residues that form a third disulfide bond. CCL15 functions as a chemoattractant for monocytes, T cells, and eosinophils through interactions with CCR1. CCL15 cDNA encodes a predicted 113 amino acid (aa) protein containing a putative signal peptide of 21 aa that is cleaved to generate a 92 aa residue mature protein. Within the CC family members, human CCL15 shares 45%, 44%, 35%, and 30% aa homology with mouse C10, human MPIF-1, human HCC-1, and mouse MIP-1γ, respectively. The gene for MIP-1δ is found on chromosome 17 where the genes for most of the human CC chemokines are located. Human CCL15 is expressed in T and B lymphocytes, NK cells, monocytes and monocyte-derived dendritic cells.

References:

1. Wang, W. *et al*. (1998) J. Clinical Immunol. **18**:214.

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