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Mouse CCL20/MIP-3a Antibody

Monoclonal Rat IgG₁ Clone # 114906 Catalog Number: MAB760

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Mouse	
Detects mouse CCL20/MIP-3α in direct ELISAs and Western blots. In direct ELISAs, 12% cross-reactivity with recombinant rat (rr) CCL20, 6% cross-reactivity with recombinant mouse (rm) CCL12 and recombinant human (rh) CCL25, and 3% cross-reactivity with with rmCCL9/10/MIP-1γ is observed. No cross-reactivity with recombinant cotton rat CCL3, 4, 5, rhCCL1, 2, 3, 4, 5, 7, 8, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, rmCCL1, 2, 3, 4, 5, 6, 7, 8, 11, 17, 19, 21, 22, 24, 25, 27, or 28 is observed.	
Monoclonal Rat IgG ₁ Clone # 114906	
Protein A or G purified from hybridoma culture supernatant	
<i>E. coli</i> -derived recombinant mouse CCL20/MIP-3α Ala28-Met97 Accession # O89093	
Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.	

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	2 µg/mL	See Below

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DATA

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Western Blot Western Blot Detection of Mouse CCL20 by **Detection of Mouse** п Western Blot. Western blot CCL20/MIP-3 alpha by Western shows lysates of mouse small Blot Conditional macrophage kDa 199 intestine. PVDF membrane was ablation disrupted Treg-cell probed with 2 µg/mL of Mouse recruitment and inhibited the 116 -CCL20/MIP-3a Monoclonal growth of CRC in mice.(A, B) 80 -CCL20 Antibody (Catalog # MAB760) Flow cytometric analysis of TAMs 52 followed by HRP-conjugated Antiderived from grafted CRC in 37 Rat IgG Secondary Antibody CD11b-DTR mice injected with (Catalog # Catalog # HAF005). A DTmu or DT. (C) CCL20 mRNA 29 specific band was detected for levels in grafted CRC in CD11b-Actin CCL20 at approximately 10 kDa DTR mice injected with DTmu or 19 -(as indicated). This experiment DT (data from 5 mice of each was conducted under reducing group were pooled together). (D) CCL20 conditions and using Immunoblot Lysates of grafted CRC from DTmu 7 -DT CD11b-DTR mice injected with Buffer Group 1. DTmu or DT were subjected to western blotting for CCL20 expression. Actin - loading control. (E) Immunofluorescence staining with anti-mouse CCL20 was performed on cryosections of GFP+ CMT93 grafted tumor mass derived from CD11b-DTR mice injected with DTmu or DT for 14 days. (F) Flow cytometric analysis of CCR6 expression for GFP+ CMT93 cells before grafting (left panel), and CCR6 staining on cryosections of GFP+ CMT93 grafted tumor mass derived from CD11b-DTR mice injected with DTmu or DT for 14 days (middle and right panel). (G, H) Number of tumor-infiltrating FoxP3+ Treg-cells in grafted CRC in CD11b-DTR mice injected with DTmu or DT. (I) CRC grafted in CD11b-DTR mice injected with DTmu or DT for 14 days. (J) Tumor weight of CRC grafted in CD11b-DTR mice injected with DTmu or DT for 14 days. Representative data are shown which had been reproduced in 2 independent experiments Image collected and cropped by CiteAb from the following publication . (https://dx.plos.org/10.1371/journal .pone.0019495), licensed under a CC-BY license. Not internally tested by R&D Systems. PREPARATION AND STORAGE Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. Shipping 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

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CCL20, also known as MIP-3 α , LARC, and Exodus, is a β chemokine. Mouse CCL20 cDNA encodes a 97 amino acid precursor protein with a 27 aa putative signal peptide that is predicted to be cleaved to form the 70 aa mature secreted protein. CCL20 is distantly related to other β chemokines (20-28% aa sequence identity). Mouse CCL20 shares approximately 71 and 63% amino acid sequence homology with rat and human CCL20, respectively. CCL20 has been shown to be expressed predominantly in lymph nodes, appendix, PBL, fetal liver, fetal lung, and epithelial cells of intestinal tissues. The expression of CCL20 is strongly upregulated by inflammatory signals and downregulated by the anti-inflammatory cytokine IL-10. CCL20 has been shown to be chemotactic for lymphocytes and dendritic cells, and inhibits proliferation of myeloid progenitors in colony formation assays. CCL20 is a functional ligand for CCR6 (previously referred to as GPR-CY4, CKR-L3, or STRL22 orphan receptor), a chemokine receptor that is selectively and highly expressed in human dendritic cells derived from CD34⁺ cord blood precursors.

References:

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- 2. Hromas, R. et al. (1997) Blood 89:3315.
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- 4. Tanaka, Y. et al. (1999) Eur. J. Immunol. 29:633.

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