Mouse CCL22/MDC Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 158132

Catalog Number: FAB4391X

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL22/MDC in ELISAs and Western blots. In Western blots, this antibody shows 25% cross-reactivity with recombinant viral MIP-II and no cross-reactivity with rmCCL1, 2, 3, 4, 6, 7, CCL9/10/MIP-1γ, 11, 12, 19, 20, 21, 22, 24, 25, 27, rhCCL1, 2
Source	Monoclonal Rat IgG_{2A} Clone # 158132
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CCL22/MDC Gly25-Ser92 Accession # O88430
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Neutralization	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CCL22, also known as ABCD-1 and MDC (macrophage-derived chemokine), is a CC chemokine cloned from activated mouse B cells. Mouse CCL22 cDNA encodes a precursor protein of 92 amino acid (aa) residues with a 24 aa residue predicted signal peptide that is cleaved to yield a 68 aa residue mature 7.8 kDa protein. At the amino acid sequence level, mouse and human CCL22 share 64% identity and 83% similarity. The genomic organization of the mouse and human CCL22 genes are very similar, exhibiting sequence identity at the intron-exon boundaries. Mouse CCL22 is expressed at high levels in dendritic cells and activated B lymphocytes. Low levels of mouse CCL22 mRNA are also detectable in lung, unstimulated spleen cells, lymph node cells and in thymocytes. CCL22 is a functional ligand for the CC chemokine receptor 4. Recombinant or chemically synthesized mature mouse CCL22 has been shown to induce chemotaxis or Ca^{2+} mobilization in activated mouse and human T cells.

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