Mouse CCL19/MIP-3β Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 87102

Catalog Number: FAB880G

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL19/MIP-3β in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human CCL1, 2, 3, 4, 5, 7, 8, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, recombinant mouse CCL1, 2, 3, 4, 5, 6, 7, 9
Source	Monoclonal Rat IgG_{2A} Clone # 87102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CCL19/MIP-3β Gly26-Val107-Leu-Glu (Ser108LeuGlu) Accession # Q548P0
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Western Blot	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

CCL19/MIP-3β, also known as ELC (EBI1-Ligand Chemokine), is a β chemokine that binds specifically to the chemokine receptor CCR7/EBI-1/BLR-2. Mouse (human) CCL19 cDNA encodes a 108 (98) amino acid precursor protein with a predicted 25 (21) aa signal peptide that is cleaved to form the 83 (77) aa mature secreted protein. CCL19 is distantly related to other β chemokines (20 - 30% aa sequence identity). Mouse CCL19 shares 83% aa sequence homology with human CCL19. CCL19 has been shown to be constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix, and spleen) in dendritic cells within the T-cell zone. The expression of CCL19 is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant CCL19 has been shown to be chemotactic for T-cells and B-cells. The CCL19 receptor (CCR-7/EBI-1/BLR-2) is expressed in various lymphoid tissues and activated B and T lymphocytes. CCR7 is also strongly up-regulated in B-cells infected with Epstein-Barr virus and T-cells infected with herpesvirus 6 or 7.

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