

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL19/MIP-3 β 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	<i>E. coli</i> -derived recombinant mouse CCL19/MIP-3 β Gly26-Val107-Leu-Glu (Ser108LeuGlu) Accession # Q548P0
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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-3 β , 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.