

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL19/MIP-3 β 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, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, recombinant mouse CCL2, 3, 4, 5, 6, 7, 9, 11, 12, 21, 22, or 25 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 54909
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human CCL19/MIP-3 β Gly22-Ser98 Accession # Q99731.1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 μ g/10 ⁶ cells	Human monocyte-derived dendritic cells fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CCL19, also known as MIP-3 β and ELC (EBI1-Ligand Chemokine), is a 77 amino acid (aa) β chemokine that is distantly related to other β chemokines (20-30% aa sequence identity). The gene for MIP-3 β has been mapped to chromosome 9p13 rather than chromosome 17 where the genes for many human β chemokines are clustered. MIP-3 β is constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix and spleen). The expression of MIP-3 β is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant MIP-3 β is chemotactic for cultured human lymphocytes. MIP-3 β is a ligand for CCR7 (previously referred to as the Epstein-Barr virus-induced gene 1 (EBI1) orphan receptor), a chemokine receptor that is expressed in various lymphoid tissues and activated B and T lymphocytes. CCR7 is strongly up-regulated in B cells infected with Epstein-Barr virus and T cells infected with herpesvirus 6 or 7.

References:

1. Yoshida, R. *et al.* (1997) *J. Biol. Chem.* **272**:13803.

PRODUCT SPECIFIC NOTICES

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