

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCR7.
Source	Monoclonal Mouse IgG _{2A} Clone # 150503
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human CCR7 transfectants Met1-Pro378 Accession # AAA58615
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA

Flow Cytometry

Detection of CCR7 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD4 PE-conjugated Monoclonal Antibody (Catalog # [FAB3791P](#)) and either (A) Mouse Anti-Human CCR7 APC-conjugated Monoclonal Antibody (Catalog # [FAB197A](#)) or (B) Mouse IgG_{2A} Allophycocyanin Isotype Control (Catalog # [IC003A](#)). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry

Detection of CCR7 in HEK293 Human Cell Line Transfected with Human CCR7 and eGFP by Flow Cytometry. The specificity of Mouse Anti-Human CCR7 Clone 150503 was demonstrated by its ability to react with (A) HEK293 human embryonic kidney cell line transfected with human CCR7 and not react with (B) irrelevant HEK293 transfectants. Antibody binding was monitored using Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [F0102B](#)).

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

CCR7 (Chemokine Receptor 7; also CD197) is a 7 transmembrane (7TM) G protein-coupled chemokine receptor for the homeostatic chemokines CCL19/MIP-3 beta and CCL21/6CKine. CCL19 and CCL21 are constitutively expressed by high endothelial venule epithelial cells or fibroblastic reticular cells in secondary lymphoid organs. CCR7 is upregulated on dendritic cells, naïve and memory T cells, Treg, NK cells, and B cells following inflammatory stimulation. Its expression enables the function of immune cell trafficking to and retention in regional lymph nodes for expansion of the adaptive immune response. Human CCR7 shares 87% amino acid sequence identity with mouse CCR7.