

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Mouse |
| Specificity | Detects mouse CCR6-transfected rat RBL cells but not the parent cell line or cells transfected with mouse CCR5. |
| Source | Monoclonal Rat IgG _{2A} Clone # 140706 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | RBL-1 rat basophilic leukemia cell line transfected with mouse CCR6 Met1-Met367 Accession # O54689 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

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 | 0.25 µg/10 ⁶ cells | See Below |
| Immunohistochemistry | 8-25 µg/mL | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA

Flow Cytometry

Detection of CCR6 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with (A) Rat Anti-Mouse CCR6 Monoclonal Antibody (Catalog # MAB590) or (B) Rat IgG2A control antibody (Catalog # MAB006) followed by Goat anti-Rat IgG APC-conjugated Secondary Antibody (Catalog # F0113) and Rat Anti-Mouse B220/CD45R Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB1217F). View our protocol for [Staining Membrane-associated Proteins](#).

Immunohistochemistry

CCR6 in Mouse Thymus. CCR6 was detected in perfusion fixed frozen sections of mouse thymus using Mouse CCR6 Monoclonal Antibody (Catalog # MAB590) at 8 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific labeling was localized to the plasma membrane of lymphocytes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

Immunohistochemistry

CCR6 in Mouse Spleen. CCR6 was detected in immersion fixed frozen sections of mouse spleen using Rat Anti-Mouse CCR6 Monoclonal Antibody (Catalog # MAB590) at 0.3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes in lymphocytes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

CCR6 is a seven transmembrane-spanning G protein-coupled receptor that binds the chemokine MIP-3 α and mediates the chemoattraction of B and T lymphocytes.