# Rat CCR9 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 882416

Catalog Number: FAB8287V

100 µg

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Rat |
| **Specificity** | Detects rat CCR9 in direct ELISAs. Stains rat CCR9 transfectants but not irrelevant transfectants in flow cytometry. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 882416 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | NS0 mouse myeloma cell line transfected with rat CCR9 |
| **Conjugate** | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm |
| **Formulation** | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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** | 0.25-1 µg/$10^6$ cells | HEK293 human embryonic kidney cell line transfected with rat CCR9 and eGFP |

## PREPARATION AND STORAGE

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| **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.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

CCR9 is an approximately 42 kDa (predicted) seven transmembrane domain receptor for the chemokine CCL25/TECK. It is expressed on $CD8^+$ T cells, monocytes, dendritic cells, and $IgA^+$ plasma cells. It plays a role in oral and gut tolerance, the development of g/d T cells, and the thymic recruitment of hematopoietic progenitor cells. $CCR9^+$ cells limit inflammatory cell infiltration in rheumatoid arthritis, hepatitis, colitis, and inflammatory bowel disease, but exacerbate it in atherosclerosis. In the brain, CCR9 is expressed on CA1 region pyramidal neurons in the hippocampus and is upregulated on microglia during *T. gondii* infection. CCR9 is also upregulated in a variety of cancers where it promotes tumor cell metastasis. Rat CCR9 shares 86% and 98% amino acid sequence identity with human and mouse CCR9, respectively.

## PRODUCT SPECIFIC NOTICES

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