

DESCRIPTION

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| Species Reactivity | Rat |
| Specificity | Detects rat CXCR7/RDC-1 in ELISAs. |
| Source | Recombinant Monoclonal Mouse IgG _{2A} Clone # 896032R |
| Purification | Protein A or G purified from cell culture supernatant |
| Immunogen | NS0 mouse myeloma cell line transfected with rat CXCR7/RDC-1 Met1-Lys362 Accession # NP_445804 |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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 |
|-----------------------|----------------------------------|--|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | HEK293 Human Cell Line Transfected with Rat CXCR7/RDC-1 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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

CXCR7 (CXC Chemokine Receptor 7), also known as GPRN1, RDC-1 and Chemokine Orphan Receptor 1, is a 60 kDa member of the G-protein coupled receptor 1 family. It is expressed on multiple cell types, including neurons, T cells, NK cells, neutrophils, B cells plus angiogenic endothelial cells. CXCR7 forms both homodimers and heterodimers with CXCR4. It selectively binds I-TAC and SDF-1, and appears to involve β-Arrestin 2 during signaling. Notably, a CXCR7:CXCR4 heterodimer shows increased responsiveness to SDF-1, and I-TAC may actually block some SDF-1-mediated migration activity.

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