

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CXCR7/RDC-1 in direct ELISAs.
Source	Monoclonal Rat IgM Clone # 734110
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCR7/RDC-1 extracellular N-terminus and loops Met1-Leu47, Ser103-Lys118, Lys184-Glu213, Leu274-Ala296 Accession # P56485
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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	D3 mouse embryonic stem cell line and HEK293 human embryonic kidney cell line transfected with eGFP and Mouse CXCR7/RDC-1

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. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CXCR7 (CXC chemokine receptor 7; also 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 SDF1, and appears to involve β-arrestin2 during signaling. Notably, a CXCR7:CXCR4 heterodimer shows increased responsiveness to SDF1, and I-TAC may actually block some SDF1-mediated migration activity. Mouse CXCR7 is a 7-transmembrane glycoprotein that is 362 amino acids (aa) in length. It contains a 47 aa N-terminal extracellular region plus a 43 aa C-terminal cytoplasmic domain. Over the collective extracellular domains (aa 1-47, 103-118, 184-213 and 274-296), mouse CXCR7 shares 97% and 91% aa identity with rat and human CXCR7, respectively.

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