

Mouse CXCR7/RDC-1 Antibody

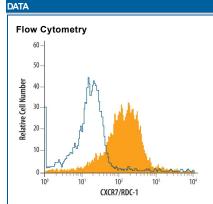
Monoclonal Rat IgM Clone # 734110 Catalog Number: MAB7167

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse CXCR7/RDC-1 in direct ELISAs.	
Source	Monoclonal Rat IgM Clone # 734110	
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse CXCR7/RDC-1 extracellular N-terminus and loops Met1-Leu47, Ser103-Lys118, Lys184-Glu213, Leu274-Ala296 Accession # P56485	
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.	

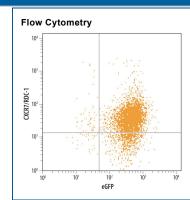
APPLICATIONS

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



Detection of CXCR7 in D3 Mouse Cell Line by Flow Cytometry. D3 mouse embryonic stem cell line was stained with Rat Anti-Mouse CXCR7/RDC-1 Monoclonal Antibody (Catalog # MAB7167, filled histogram) or isotype control antibody rat IgM (open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgM Secondary Antibody.



Detection of CXCR7 in HEK293 Human Cell Line Transfected with eGFP and Mouse CXCR7/RDC-1 by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with eGFP and Mouse CXCR7/RDC-1 were stained with Rat Anti-Mouse CXCR7/RDC-1 Monoclonal Antibody (Catalog # MAB7167) followed by Allophycocyanin-conjugated-Anti-Rat IgM secondary antibody. Quadrant markers were set based on control antibody staining.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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

- 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

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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