

DESCRIPTION

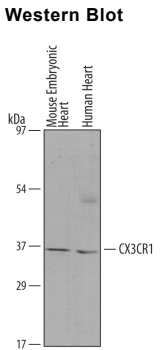
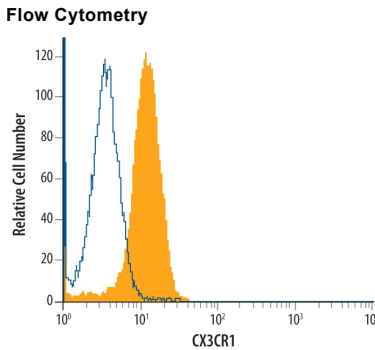
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CX3CR1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CX3CR1 Met1-Thr32, Leu92-Lys104, Thr169-Val196, Lys258-Leu274 Accession # Q9Z0D9
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
Western Blot	1 µg/mL	See Below
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.	

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse CX3CR1 by Western Blot. Western blot shows lysates of mouse embryonic heart tissue and human heart tissue. PVDF membrane was probed with 1 µg/mL of Human/Mouse CX3CR1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5825) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for CX3CR1 at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Flow Cytometry</p>  <p>Detection of CX3CR1 in M1 Mouse Cell Line by Flow Cytometry. M1 mouse myeloid leukemia cell line was stained with Human/Mouse CX3CR1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5825, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

CX3CR1 (CX₃C chemokine receptor 1; also fractalkine receptor, GPCR13 and V28) is a 40 kDa (predicted) member of the δ-group of rhodopsin GPCRs. It is expressed on astrocytes, microglia, macrophages, Th1 and Tc1 T cells, NK cells, mouse Gr1^{lo} monocytes plus smooth muscle and mast cells. CX₃CR1 mediates adhesion to fractalkine, promotes avid binding of integrins to their ligands, and extends the life of monocytes. Mouse CX3CR1 is a 7-transmembrane protein that is 354 amino acids (aa) in length. It contains a 32 aa N-terminal extracellular region that shows no glycosylation, and a 56 aa C-terminal cytoplasmic domain. Over aa 1-32, 91-104, 169-196 and 258-274 collectively, mouse CX₃CR1 shares 96% and 77% aa identity with rat and human CX₃CR1, respectively.