

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human XCR1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human XCR1 Met1-Thr31, Ser89-Lys103, His168-His190, Phe251-Tyr267 Accession # P46094
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

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

XCR1, also known as GPR5 and lymphotactin/SCM-1 (single cysteine motif 1) receptor, is a 38 kDa member of the G-protein coupled receptor 1 family. It binds XCL1/lymphotactin/SCM-1α and XCL2/SCM-1β. In addition, human herpesvirus 8 (HHV8) encodes two viral chemokines vCCL2/vMIP-II and vCCL3/vMIP-III that function as an antagonist and a highly selective agonist, respectively, for XCR1. XCR1 is expressed on neutrophils, CD8⁺ T cells, NK cells, CD4⁺ T cells and B cells. Human XCR1 is a 333 amino acid (aa), 7-transmembrane molecule. It contains a 32 aa N-terminus that lacks glycosylation sites and a 42 aa C-terminal cytoplasmic tail. Over the extracellular regions used for immunization, human XCR1 shares 62%, 54% and 64% aa identity with canine, mouse and porcine XCR1, respectively.

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