

DESCRIPTION

Species Reactivity	Human/Primate
Specificity	Detects human CXCL16 in ELISAs and Western blots. In ELISAs, less than 0.05% cross-reactivity with recombinant mouse (rm) CXCL16, rm6CKine, recombinant human (rh) BLC, rhCTACK, rhIL-8, rhPF4, and rhLymphotactin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CXCL16 Asn49-Pro137 Accession # NP_071342
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Neutralization	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.
Immunohistochemistry	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

CXC chemokine ligand 16 (CXCL16) is a type I membrane protein containing a non-ELR motif-containing CXC chemokine domain in its extracellular region. Together with Fractalkine (CX3CL1), CXCL16 constitute the only two transmembrane chemokines within the superfamily. The gene for human CXCL16 predicts a 273 amino acid (aa) residue precursor protein with a putative signal peptide, a CXC chemokine domain, a mucin-like spacer region, a transmembrane domain and a cytoplasmic domain with a potential tyrosine phosphorylation and SH2 protein-binding site. Mouse and human CXCL16 share 70% aa sequence similarity within their chemokine domains and 49% overall aa sequence identity. By northern blot analysis, CXCL16 expression is detected in various human organs except for brain, bone marrow, skeletal muscle or colon. By flow cytometry, CXCL16 has been detected on the surface CD19⁺ B cells, CD14⁺ monocytes/macrophages, and CD11c⁺ splenic and lymph node dendritic cells. Functional CXCL16 can be shed from the cell surface as an approximately 35 kDa soluble protein. The functional receptor for CXCL16 has been identified as CXCR6 (also known as Bonzo, STRL33 or TYMSTR), a receptor previously shown to be a co-receptor for HIV entry. CXCL16 has also been independently cloned and named SRPSOX (scavenger receptor that binds phosphatidylserine and oxidized lipoprotein). It was shown to be a specific receptor for OxLDL but not LDL or acetyl-LDL.

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