Human/Primate CXCL16 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF976

DESCRIPTION

Species Reactivity	Human/Primate
Specificity	Detects human CXCL16 in ELISAs and Western blots. In Sandwich 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	*E. coli*-derived recombinant human CXCL16 Asn49-Pro137 Accession # NP_071342
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

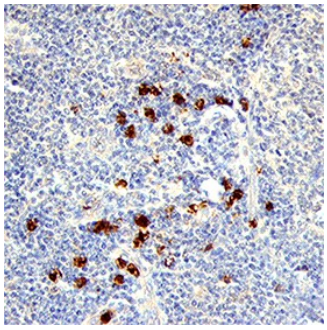
APPLICATIONS

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	0.1 µg/mL	Recombinant Human CXCL16 Chemokine Domain (Catalog # 976-CX)
Flow Cytometry	0.25 µg/10^6 cells	Human monocyte-derived dendritic cells
Immunohistochemistry	5-15 µg/mL	See Below
Human/Primate CXCL16 Sandwich Immunoassay		**Reagent**
ELISA Capture	0.2-0.8 µg/mL	Human/Primate CXCL16 Antibody (Catalog # AF976)
ELISA Detection	0.1-0.4 µg/mL	Human/Primate CXCL16 Biotinylated Antibody (Catalog # BAF976)
Standard		Recombinant Human CXCL16 Extracellular Domain (Catalog # 1164-CX)

DATA

Immunohistochemistry



CXCL16 in Human Lymphoma Tissue. CXCL16 was detected in immersion fixed paraffin-embedded sections of human lymphoma tissue using Goat Anti-Human/Primate CXCL16 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF976) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in lymphocytes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 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.

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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.

References:

1. Matloubian, M. *et al*. (2000) Nature Immun. **1**:298.
2. Shimaoka, T. *et al*. (2000) J. Biol. Chem. **275**:40663.
3. Wilbanks, A. *et al*. (2001) J. Immun. **166**:5145.

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