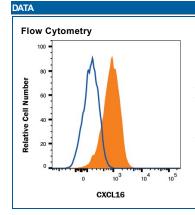


Mouse CXCL16 Antibody

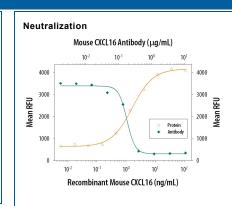
Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF503

| DESCRIPTION | | |
|--------------------|---|--|
| Species Reactivity | Mouse | |
| Specificity | Detects mouse CXCL16 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CXCL16, rhFractalkine, recombinant mouse Fractalkine, and recombinant rat Fractalkine is observed. | |
| Source | Polyclonal Goat IgG | |
| Purification | Antigen Affinity-purified | |
| Immunogen | E. coli-derived recombinant mouse CXCL16 Asn27-Pro114 Accession # Q8BSU2 | |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. | |
| 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 P | rotocols are available in the Technical Information section on our website. | |
| | Recommended Concentration | Sample | |
| Western Blot | 0.1 μg/mL | Recombinant Mouse CXCL16 Chemokine Domain (Catalog # 503-CX) | |
| Flow Cytometry | 0.25 μg/10 ⁶ cells | Raw264.7 mouse monocyte/macrophage cell line | |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | | |
| Neutralization | Measured by its ability to neutralize CXCL16-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CXCR6. Matloubian, M. et al. (2000) Nature Immunol. 1:298. The Neutralization Dose (ND ₅₀) is typically 0.1-0.4 μg/mL in the presence of 7.5 ng/mL Recombinant Mouse CXCL16 Chemokine Domain. | | |



Detection of CXCL16 in Raw 264.7 cells by Flow Cytometry Raw 264.7 cells were stained with Goat Anti-Mouse CXCL16 Antigen Affinity-purified Polyclonal Antibody (Catalog # af503, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram) followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). View our protocol for Staining Membraneassociated Proteins.



Chemotaxis Induced by CXCL16 and Neutralization by Mouse CXCL16 Antibody. Recombinant Mouse CXCL16 Chemokine Domain (Catalog # Catalog # 503-CX) chemoattracts the BaF3 mouse pro-B cell line transfected with mouse CXCR6 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CXCL16 Chemokine Domain (7.5 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CXCL16 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF503). The ND_{50} is typically 0.1-0.4 $\mu\text{g/mL}.$

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store 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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Mouse CXCL16 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF503

BACKGROUND

Mouse CXCL16 (CXC chemokine 16) is a non-ELR motif-containing CXC chemokine with a transmembrane domain. CX3CL1/Fractalkine and CXCL16 are the only two transmembrane chemokines within the superfamily. Mouse CXCL16 cDNA encodes a 246 amino acid (aa) precursor protein with a putative 26 aa residue signal peptide, an 88 aa residue chemokine domain, an 87 aa residue mucin-like spacer region, a 22 aa residue transmembrane domain, and a 23 aa residue cytoplasmic tail. Mouse and human CXCL16 share 49% overall aa identity and 70% similarity in the chemokine domains. Mouse CXCL16 is produced by dendritic cells in lymphoid organ T cell zones and by cells in the splenic red pulp both as membrane-bound and soluble forms. Based on northern blot analysis, CXCL16 is also expressed in some nonlymphoid tissues such as lung, small intestine and kidney. The receptor for CXCL16 has been identified as CXCR6/Bonzo (STRL33 and TYMSTR), a receptor previously shown to be a co-receptor for HIV entry. CXCR6 is expressed on naive CD8 cells, natural killer T cells and activated CD8 and CD4 T cells.

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