

## PE anti-human CXCL16 Antibody

<b>Catalog# / Size</b>	360803 / 25 tests 360804 / 100 tests
<b>Clone</b>	22-19-12
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	SRPSOX, CXCLG16, SR-PSOX
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	<p>CXCL16, a 27 kD chemokine, exists in membrane-bound and soluble forms. Unlike classic chemokines, CXCL16 possesses a mucin-like stalk, a transmembrane domain, and a cytoplasmic tail with a tyrosine phosphorylation domain, allowing it to be expressed on the cell surface. Structurally, it is similar to fractalkine. It is expressed by dendritic cells, monocytes, and T cells. T cells can also migrate in response to CXCL16.</p> <p>CXCL16 can also act as a scavenger receptor on macrophages. Its receptor is CXCR6/Bonzo. It can bind oxidized LDL and thus may play an important role in atherosclerosis. Recent studies have shown a role for CXCL16 in kidney fibrosis and in autoimmunity. CXCL16 is also a co-receptor for HIV.</p>

### Product Details

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<b>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Purified human SR-PSOX-Fc fusion protein
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats of this clone) include: <i>in vitro</i> blocking of chemotactic activity of CXCR6 expressing cells <sup>1</sup> . Clone 22-19-12 recognizes the chemokine domain of CXCL16 and has been shown to inhibit chemotactic activity to CXCR6-expressing cells by soluble CXCL16. <sup>1</sup>
<b>Application References</b>	1. Shimaoka T, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:1647. (FC, Block)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Gouwy M, <i>et al.</i> 2016. PLoS One. 11:e0166006. <a href="#">PubMed</a>
<b>RRID</b>	AB_2563010 (BioLegend Cat. No. 360803)

## Antigen Details

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<b>Structure</b>	~27 kD, exists as a membrane bound and soluble forms
<b>Distribution</b>	Produced by dendritic cells and T cells
<b>Function</b>	Binds to oxidized LDL and may play an important role in atherosclerosis
<b>Interaction</b>	Interacts with CXCR6/Bonzo
<b>Ligand/Receptor</b>	CXCR6
<b>Cell Type</b>	Dendritic cells, T cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	Cytokines/Chemokines
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Matloubian M, <i>et al.</i> 2000. <i>Nat. Immunol.</i> 1:298.</li><li>2. Wilbanks A, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:5145.</li><li>3. Shimaoka T, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:1647.</li><li>4. Chandrasekar B, <i>et al.</i> 2004. <i>J. Biol. Chem.</i> 179:3188.</li><li>5. Shimaoka T, <i>et al.</i> 2004. <i>J. Leukoc. Biol.</i> 75:267.</li></ol>
<b>Gene ID</b>	<a href="#">58191</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

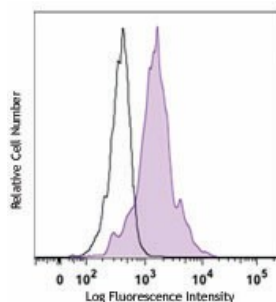
## Other Formats

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Purified anti-human CXCL16, PE anti-human CXCL16

## Product Data

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Peripheral blood monocytes were stained with anti-human CXCL16 (clone 22-19-12) PE (filled histogram) or mouse IgG1,  $\kappa$  PE isotype control (open histogram).

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