Technical Data Sheet

InVivoMAb anti-mouse CXCL16 (SR-PSOX)

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**BE0450**
Clone:	**12-81**
Isotype:	Rat IgG1, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG1 isotype control, anti-horseradish peroxidase
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	mSR-PSOX-Fc fusion protein
Reported Applications:	*in vivo* neutralization of CXCL16 *in vitro* neutralization of CXCL16 Functional assay Flow cytometry Immunofluorescence Immunohistochemistry (frozen)
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	
Molecular Weight:	150 kDa

Description

The 12-81 monoclonal antibody reacts with the extracellular domain of CXCL16 (CXC motif chemokine 16), a chemotactic cytokine that is also known as scavenger receptor for phosphatidylserine and oxidized low density lipoprotein (SR-PSOX). The 12-81 antibody does not cross-react with other murine CXCLs, and its specificity for mouse CXCL16 is validated through flow cytometry of cells from SR-PSOX/CXCL16 knockout mice. CXCL16 is expressed in normal thymus, spleen, lymph nodes, Peyer's patches, liver, lung, small intestine, and kidney and skin epidermis. CXCL16 is also produced by cancer cells, including glioblastoma multiforme, lung tumors, lymphoma, breast cancer, and nasopharyngeal carcinoma. CXCL16 belongs to the α-chemokine subfamily and is the only known ligand for CXCR6. CXCL16 exists as a 60 kDa membrane-bound form (mCXCL16) and a 35 kDa soluble form (sCXCL16). CXCL16 plays a dual role in chemotaxis (sCXCL16-CXCR6 interaction) and adhesion (mCXCL16-CXCR6, and sCXCL16-mCXCL16 interaction) with both soluble and transmembrane forms. CXCL16 expression is increased by pro-inflammatory cytokines (e.g., TNF-α, IFN-γ, IL-1β, IL-6) and transcription factors (e.g., HIF-1 α). CXCL16 is involved in various immune and inflammatory processes. The CXCL16-CXCR6 axis has also been implicated in various disease conditions such as viral infections (HIV/SIV, HCV, and COVID-19), kidney diseases, nonalcoholic fatty liver disease (NAFLD), atherogenesis, osteoarthritis, and many types of cancers. In the

tumor microenvironment, CXCL16-CXCR6 signaling regulates cancer cell proliferation, tumor angiogenesis, and metastasis. The 12-81 monoclonal antibody has been documented for in vitro and in vivo neutralization of CXCL16/SR-PSOX in various experiments involving autoimmune diseases, viral infections, cancer research, and other experiments.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0450?bxcs=9k1b3a#tab_references or scan the QR code below.

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