Technical Data Sheet

InVivoSIM anti-human IL-1β (Gevokizumab Biosimilar)

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:	**SIM0049**
Clone:	**Gevokizumab**
Isotype:	Human IgG2, κ
Recommended Isotype Control(s):	RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Human IL-1β
Reported Applications:	*in vivo* neutralization of human IL1β *in vitro* neutralization of human IL1β ELISA Western blot Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Aggregation:	<5% Determined by SEC
RRID:	
Molecular Weight:	150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

This biosimilar antibody uses the same variable regions as the therapeutic antibody Gevokizumab, making it ideal for research use. Gevokizumab is a fully humanized monoclonal antibody that reacts with human IL-1β, a potent pro-inflammatory cytokine produced primarily by monocytes. Inflammatory signals, such as LPS, stimulate the synthesis and promote the accumulation of cytosolic stores of pro-IL1 β, and after inflammasome assembly-mediated CASP1 activation, pro-IL1 is processed to generate active cytokine for secretion. IL-1β is an important mediator of the inflammatory response and is involved in a variety of cellular activities, including cell proliferation, differentiation, apoptosis, and T and B lymphocyte

activation, neutrophil influx and activation, cytokine production, antibody production, fibroblast proliferation, and the synthesis of collagen as well as prostaglandins. IL-1β promotes Th17 differentiation of T-cells and also shows synergism with IL-12 to induce IFN-γ synthesis from Th1 cells. The Gevokizumab antibody binds a unique IL-1β epitope that is proximal to, but does not overlap with, the receptor/ligand interface, and this interaction reduces the binding of IL-1 to its receptor, i.e., IL-1 receptor type I (IL-1RI or CD121a). Gevokizumab neutralizes the human IL-1β by binding to it, and this antibody is used in preclinical research involving in vitro and in vivo experimental models of type 1 diabetes mellitus, inflammation, rheumatoid arthritis, cardiovascular biology, and cancer immunotherapy.

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

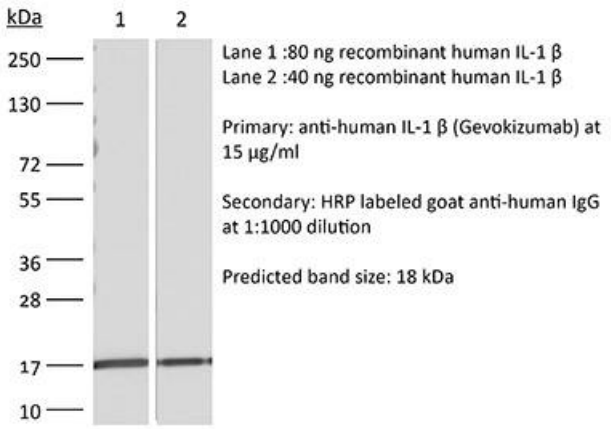
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0049?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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