Technical Data Sheet

InVivoSIM anti-human IL-33 (Etokimab 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:	**SIM0053**
Clone:	**Etokimab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	K214R
Immunogen:	Human IL-33
Reported Applications:	*in vivo* functional assays *in vitro* functional assays Flow cytometry ELISA
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
Purification:	Protein A
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 non-therapeutic biosimilar antibody uses the same variable regions as the therapeutic antibody, Etokimab, making it ideal for research use. Etokimab is a humanized IgG1 monoclonal antibody that reacts with interleukin-33 (IL-33) of human and cynomolgus monkey species. IL-33 is a member of the IL-1 family of cytokines, and it is constitutively expressed by epithelial cells, endothelial cells, and fibroblastic stromal cells. IL-33 is an alarmin cytokine which is released when a cell or

tissue is damaged. IL-33 plays an important role in tissue homeostasis/repair, type 2 immunity, viral infection, allergic and non-allergic inflammation, and cancer. The binding of secreted IL-33 to its receptor ST2, also called the IL-1 receptor accessory protein (IL-1RAP) heterodimer, triggers MyD88-dependent NF-κB or AP-1 signaling pathways, thereby upregulating inflammatory cytokines crucial to the pathogenesis of both allergic and non-allergic inflammatory disorders. IL-33 targets Th1 cells, Th2 cells, basophils, eosinophils, macrophages, DCs, neutrophils, CD8+ T cells, NK cells, and iNKT cells. The etokimab antibody (formerly known as ANB020) has been shown to inhibit the release of IFN-γ by IL-33/IL-12 in in vitro preclinical experiments. Etokimab has been used to neutralize IL-33 in various diseases, including atopic dermatitis (AD), eosinophilic asthma, and chronic rhinosinusitis with nasal polyps (CRSwNP), as well as allergic inflammation in various tissues (such as skin and nasopharyngeal/pulmonary tissues).

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

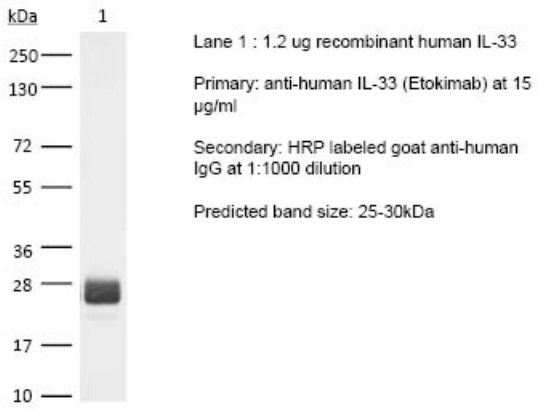
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0053?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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