Technical Data Sheet

InVivoSIM anti-human FGFR2b (CD332) (Bemarituzumab 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:	**SIM0052**
Clone:	**Bemarituzumab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 (K214R/L234F/L235E/P331S) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	K214R
Immunogen:	Human FGFR2b
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, Bemarituzumab, making it ideal for research use. Bemarituzumab is a humanized IgG1κ anti-human FGFR2b (CD332) antibody, which reacts with the fibroblast growth factor receptor 2 IIIb isoform (FGFR2b) of FGFR2. FGFR2 is a member of a family of four FGF

receptors that interact with over 20 different fibroblast growth factors (FGFs), each of which shows relatively unique and restricted expression to specific tissues, cell types, and/or developmental stages. FGF7, FGF10, and FGF22 are the main ligands of FGFR2b. FGFR2b is expressed in epithelial tissues such as the stomach and skin and is often found overexpressed in gastric cancers. FGF-FGFR2 signaling is involved in many cancers, such as gastric, breast, ovarian, endometrial, lung, and bile duct cancers. Bemarituzumab has recently been introduced for the therapeutic blockade of FGFR2b signaling. In combination with anti-cancer experimental therapeutics, bemarituzumab is documented to exhibit substantial synergism in vivo with immune checkpoint blockage via anti-PD-1 or chemotherapy. NOTE: The CHOK1BN-Fut8KO cell line was not used to express this bemarituzumab antibody (SIM0052), so it is NOT afucosylated.

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

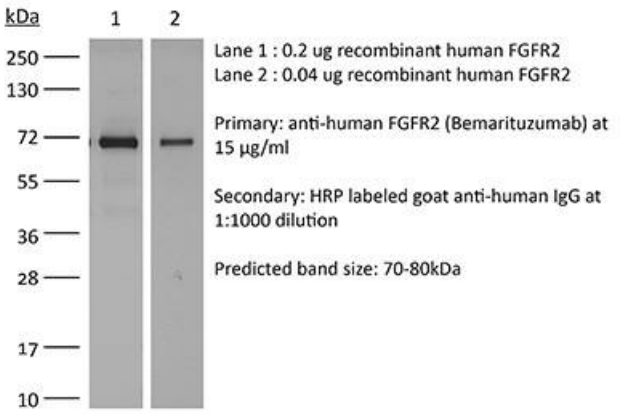
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0052?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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