Technical Data Sheet

InVivoMAb anti-human CD133

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:	**BE0458**
Clone:	**CMab-43**
Isotype:	Mouse IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Human CD133 overexpressing LN229 cells
Reported Applications:	*in vivo* targeting of CD133 Flow cytometry Immunohistochemistry (paraffin) Western blot For details on *in vivo* applications please contact technicalservice@bioxcell.com
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 A
RRID:	
Molecular Weight:	150 kDa

Description

The CMab-43 monoclonal antibody reacts with human CD133, also known as AC133 or prominin 1 (PROM1). CD133 is expressed in early progenitor and hematopoietic stem cells. CD133 was originally discovered in a subset of CD34+ hematopoietic stem and progenitor cells (HSPCs) derived from human fetal hepatic and bone marrow tissues, and subsequent studies established its expression in neuroepithelium and immature epithelia as well. CD133 is expressed in hematological malignancies as well as a range of solid tumors, including pancreatic, hepatocellular, prostate, colon, kidney, skin, ovarian, and brain cancers. CD133 is suggested to play a role in cell differentiation, proliferation, and apoptosis. CD133 binds cholesterol and plays a role in the organization of the apical plasma membrane in epithelial cells. It is involved in the regulation of MAPK and Akt signaling pathways. Antibodies against CD133 antigen are commonly used for identifying hematopoietic stem and progenitor cells (HSPCs) and cancer stem cells (CSCs) derived from cancers. In human colon cancer (Caco-2) xenograft mouse models, in vivo treatment with the CMab-43 antibody has been shown to exert antitumor activity.

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/be0458?bxcs=9k1b3a#tab_references or scan the QR code below.

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