Technical Data Sheet

InVivoMAb anti-mouse/human osteopontin (SPP1)

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:	**BE0372**
Clone:	**100D3**
Isotype:	Mouse IgG2c, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2c isotype control, anti-dengue virus
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Recombinant mouse OPN protein
Reported Applications:	*in vivo* OPN neutralization *in vitro* OPN neutralization ELISA
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 filtration
Purification:	Protein A
RRID:	AB_2927509
Molecular Weight:	150 kDa

Description

The 100D3 monoclonal antibody reacts with mouse and human osteopontin (OPN), also known as SPP1. Osteopontin is a secreted arginine-glycine-aspartic acid (RGD)-containing glycoprotein that was originally isolated from bone. Osteopontin has been found in kidney, vascular tissues, biological fluids, and various tumor tissues. Osteopontin interacts with integrins and CD44 and regulates diverse biological processes including bone development, immune responses, and oncogenesis. Osteopontin is elevated in human colorectal cancer and is thought to function as an immune checkpoint. The 100D3 antibody is a blocking antibody that has been shown to increase the efficacy of tumor-specific CTLs in killing colon tumor cells in vitro and suppress colon tumor growth in tumor-bearing mice in vivo.

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/be0372?bxcs=9k1b3a#tab_references or scan the QR code below.

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