Technical Data Sheet

InVivoMAb anti-mouse/human/rat 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:	**BE0382**
Clone:	**MPIIIB10**
Isotype:	Mouse IgG1, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Rat bone protein fractions
Reported Applications:	*in vivo* OPN neutralization *in vitro* OPN neutralization Immunohistochemistry (paraffin) Western blot
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 G
RRID:	AB_2927519
Molecular Weight:	150 kDa

Description

The MPIIIB10 monoclonal antibody is reported to react with rat, mouse and human osteopontin (OPN), although the immunogen used to generate the antibody was of rat origin. Osteopontin, also known as SPP1 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 MPIIIB10 antibody is a neutralizing antibody that has been shown to inhibit tumor growth and synergize with cell-based immunotherapeutic vaccines in mediating anti-tumor immunity.

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/be0382?bxcs=9k1b3a#tab_references or scan the QR code below.

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