Technical Data Sheet

InVivoMAb anti-mouse Podoplanin (gp38)

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:	**BE0236**
Clone:	**8.1.1**
Isotype:	Syrian hamster IgG
Recommended Isotype Control(s):	InVivoMAb polyclonal Syrian hamster IgG
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse tymic epithelial cells
Reported Applications:	*in vivo* PDPN blockade *in vitro* PDPN blockade Immunofluorescence Western blot Flow cytometry
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:	AB_2687718
Molecular Weight:	150 kDa

Description

The 8.1.1 monoclonal antibody reacts with mouse podoplanin (PDPN) also known as glycoprotein 38 (gp38). Podoplanin is a 36 to 43 kDa mucin-type glycoprotein expressed by kidney glomerular epithelial cells (podocytes), lymphatic endothelial cells, and fibroblastic reticular cells. Podoplanin is the endogenous ligand for the C-type lectin receptor CLEC-2, which is expressed by platelets and DCs. CLEC-2 signaling is critical for platelet activation, the migration of activated DCs to draining lymph nodes, and maintenance of vascular integrity and lymph node structure. Podoplanin is critical for fibroblastic reticular cell contractility as well as during fetal development for blood-lymph separation and lung organogenesis. Podoplanin overexpression in cancer correlates with increased invasion and metastasis. The 8.1.1 antibody has been shown to block podoplanin in vivo and in vitro.

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/be0236?bxcs=9k1b3a#tab_references or scan the QR code below.

Bio X Cell, LLC
https://bioxcell.com
+1-866-787-3444
customerservice@bioxcell.com

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