

# 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: <2EU/mg (<0.002EU/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](https://identifiers.org/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/catalogsearch/result/?q=BE0236#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0236#tab_references) or scan the QR code below.



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*Not for resale.*

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