Technical Data Sheet

InVivoMAb anti-mouse CD31 (PECAM-1)

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:	**BE0377**
Clone:	**390**
Isotype:	Rat IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb rat IgG2a isotype control, anti-trinitrophenol
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	C3H/HeJ mouse hematopoietic progenitor cell line 3
Reported Applications:	*in vivo* CD31 blocking Intravital imaging Immunofluorescence 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 filtration
Purification:	Protein G
RRID:	AB_2927514
Molecular Weight:	150 kDa

Description

The 390 monoclonal antibody reacts with mouse CD31, also known as PECAM-1 (platelet endothelial cell adhesion molecule). CD31 is a 130-140 kDa glycoprotein and member of the immunoglobulin superfamily. CD31 is expressed constitutively on the surface of adult and embryonic endothelial cells and is weakly expressed on platelets, granulocytes, monocytes/macrophages, dendritic cells, and T and B cell subsets. CD31 mediates homophilic and heterophilic cell-cell adhesion and is critical for cell-cell interactions. Ligands for CD31 are reported as CD38 and vitronectin receptor (αvβ3 integrin, CD51/CD61). The 390 antibody has been shown to inhibit in vivo functions mediated by CD31.

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/be0377?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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