

# 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,  $\kappa$   
**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:** <2EU/mg (<0.002EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtration  
**Purification:** Protein G  
**RRID:** [AB\\_2927514](https://abnova.com/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 ( $\alpha$ v $\beta$ 3 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/catalogsearch/result/?q=BE0377#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0377#tab_references) or scan the QR code below.



---

**Bio X Cell, LLC**

<https://bioxcell.com>

+1-866-787-3444

[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*

*Not for resale.*

**Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2024 Bio X Cell, LLC**