

# Technical Data Sheet



## RecombiMAb anti-mouse CD106 (VCAM-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:** CP050  
**Clone:** M/K-2.7-CP050  
**Isotype:** Mouse IgG2a,  $\kappa$   
**Recommended Isotype Control(s):** InVivoPlus mouse IgG2a isotype control, unknown specificity  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** Stromal cells from mouse bone marrow  
**Reported Applications:** *in vivo* VCAM-1 neutralization\*  
Immunofluorescence\*  
\*Reported for the original rat IgG1 M/K-2.7 antibody

**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives

**Endotoxin:** <1EU/mg (<0.001EU/ $\mu$ g)  
Determined by LAL gel clotting assay

**Purity:** >95%  
Determined by SDS-PAGE

**Sterility:** 0.2  $\mu$ m filtration

**Production:** Purified from HEK293 cell supernatant in an animal-free facility

**Purification:** Protein G

**Aggregation:** <5%  
Determined by SEC

**RRID:**  
**Molecular Weight:** 150 kDa

### Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

### Description

The M/K-2.7-CP050 monoclonal antibody is a chimeric version of the original M/K-2.7 antibody. The variable domain sequences are identical to the original M/K-2.7 but the constant region sequences have been switched from rat IgG1 to mouse IgG2a. The M/K-2.7-CP050 monoclonal antibody reacts with mouse CD106 also known as VCAM-1 and INCAM-110. CD106 is a 110 kDa single chain type I glycoprotein that is expressed primarily on activated vascular endothelial cells but has also been reported on follicular and interfollicular dendritic cells, some macrophages, bone marrow stromal cells, and non-vascular cell populations within joints, kidney, muscle, heart, placenta, and brain. CD106 expression is induced by inflammatory stimuli and cytokines. CD106 binds the integrins CD49d/CD29 (VLA-4) and  $\alpha$ 4 $\beta$ 7 which contribute to leukocyte

adhesion, transmigration, and co-stimulation of T cell proliferation.

## 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/cp050?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/cp050?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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