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, κ
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:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm 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 α4β7 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 or scan the QR code below.

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