Datasheet

Mouse mAb to **CD106**
Clone **B-K9**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with activated umbilical cord vein endothelial cells (HUVEC).
Fusion partner: X63/AG.8653.

Specifications

CD106 is a protein of 110 kDa, also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100. CD106 is a member of the Ig superfamily of adhesion molecules and is expressed at high levels on cytokine stimulated vascular endothelial cells, and at minimal levels on un-stimulated endothelial cells. It is also present on follicular dendritic cells of lymph nodes, myoblasts, and some macrophages. In addition, epithelial cells and cancers cells can be positive, like in kidney and prostate cancer. CD106 serves as a ligand for leukocytes integrin (VLA-4 or CD49d/CD29) and mediates cell adhesion of leukocytes to activated endothelium. It plays a role in various immunological and inflammatory responses. B-K9 inhibits the binding of leukocytes to VCAM-1 on stimulated endothelial cells.

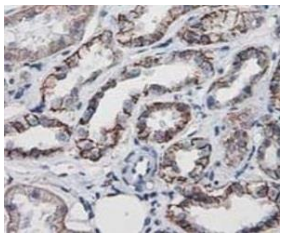

Figure 1: Kidney stained for CD 106 (DAB).

Species reactivity

Positive: human.

Applications

B-K9 is also used in an immobilized VCAM-1 ELISA.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence
+	+	+	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow cytometry (0,5-1,0 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30-60 min at RT; for staining of formalin-fixed tissues no suitable antigen retrieval method is known to date).

Positive control

Human placenta or tonsil, kidney, some prostate cancers.

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References

- Cervelló I et al. *PLoS One* **6**:e21221 (2011).
- Lehmann GM et al. *Am J Physiol Cell Physiol* **299**: C672-81 (2010).