



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Mouse anti Human vitronectin receptor (CD51)

Catalogue number: **MUB1907P**

Clone	NKI-M9 (former PAF2a)
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Immunofluorescence Immunohistochemistry (frozen) Immunoprecipitation

### Background

CD51 (Cluster of Differentiation 51), known as vitronectin receptor  $\alpha$  chain, or integrin  $\alpha$ V is a type I integral membrane glycoprotein. CD51 forms a heterodimer with integrin  $\beta$ 1 (CD29),  $\beta$ 3 (CD61),  $\beta$ 5,  $\beta$ 6, or  $\beta$ 8. CD51 contains two disulfide-linked subunits of 125 kD and 24 kD. Many extracellular matrix proteins with RGD-motifs are CD51 ligands. In association with its  $\beta$  chains, CD51 binds vitronectin, von Willebrand factor, fibronectin, thrombospondin, osteopontin, fibrinogen, and laminin. CD51, as an adhesion molecule, plays important roles in leukocytes homing and rolling, mediates bone absorption and angiogenesis. CD51 is expressed on endothelial cells, fibroblasts, macrophages, platelets, osteoclasts, neuroblastoma, melanoma, and hepatoma cells.

### Source

NKI-M9 is a mouse monoclonal IgG2a antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a Balb/c mouse immunized with cultured melanoma cells derived from a human melanoma metastasis.

### Product

Each vial contains 100  $\mu$ l 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

### Applications

NKI-M9 is useful for ELISA, immunoprecipitation, flow cytometry and immunohistochemistry on frozen sections. Optimal antibody dilution should be determined by titration.

### Specificity

## Distributors

For Purchasing Information, please contact your local distributor

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NKI-M9 is directed anti the CD51 antigen, alpha chain of vitronectin receptor (VNR-a chain) which forms a complex with: CD61 antigen (GP IIIa or b3 chain); b5 Integrin and b1 Integrin. The platelet a-b3 complex functions as a vitronectin receptor and platelet adhesion to vitronectin is inhibited by NKI-M9.

**Storage**

Store at 4°C, or in small aliquots at -20°C.

**References**

1. Nesbitt, S., et al., 1993. J. Biol. Chem. 268:16737.
2. Zola, H., et al., 2007. Leukocyte and Stromal Cell Molecules: The CD Markers Wiley-Liss A John Wiley & Sons, Inc.
3. J.M.W. Quinn, N.A. Athanasou, and J.O'D McGee, 1991. Histochemistry, 96:169-176

**Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.