

## Product datasheet for **AM32337PU-N**

### CD51 (ITGAV) Mouse Monoclonal Antibody [Clone ID: NKI-M9 (former PAF2a)]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	NKI-M9 (former PAF2a)
Applications:	ELISA, FN, IF, IHC, IP
Recommended Dilution:	<b>ELISA.</b> <b>Functional Studies</b> on Vitronectin Receptor on Human platelets. <b>Flow Cytometry.</b> <b>Immunohistochemistry on Frozen Sections.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Cultured melanoma cells derived from a Human melanoma metastasis.
Specificity:	The antibody is directed against the CD51 antigen, alpha chain of Vitronectin Receptor (VNR-alpha chain) which forms a complex with: CD61 antigen (GP IIIa or b3 chain); b5 Integrin and b1 Integrin. The platelet alpha-beta-3 complex functions as a Vitronectin Receptor and platelet adhesion to Vitronectin is inhibited by this monoclonal by NKI-M9 antibody.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha V



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<b>Database Link:</b>	<a href="#">Entrez Gene 3685 Human P06756</a>
<b>Background:</b>	<p>CD51 (Cluster of Differentiation 51), known as vitronectin receptor <math>\alpha</math> chain, or integrin <math>\alpha</math>V is a type I integral membrane glycoprotein.</p> <p>CD51 forms a heterodimer with integrin <math>\beta</math>1 (CD29), <math>\beta</math>3 (CD61), <math>\beta</math>5, <math>\beta</math>6, or <math>\beta</math>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 <math>\beta</math> 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.</p> <p>CD51 is expressed on endothelial cells, fibroblasts, macrophages, platelets, osteoclasts, neuroblastoma, melanoma, and hepatoma cells.</p>
<b>Synonyms:</b>	Integrin alpha-V, MSK8, VNRA, Vitronectin receptor subunit alpha