

Product datasheet for **AM33038PU-N**

CD51 (ITGAV) Mouse Monoclonal Antibody [Clone ID: NKI-M7 (former AMF7)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NKI-M7 (former AMF7)
Applications:	ELISA, FC, IHC, IP
Recommended Dilution:	ELISA. Fow Cytometry. Immunoprecipitation. Immunohistochemistry on Frozen Sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	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.
Specificity:	T-lymphocyte clones <i>NKI-M7</i> detect a melanoma-associated proteoglycan (MW greater than 450-250 kDa) and a molecular complex, which under reducing conditions consists of 4 compounds of 120, 95, 29 and 25 kDa respectively. <i>NKI-M7</i> reacts with cultured melanomas melanomas in frozen sections. The antigen detected by <i>NKI-M7</i> is strongly associated with the adhesion and cytoplasmic spreading of melanoma cells to plastic surfaces and monolayers of vascular endothelial cells. <i>NKI-M7</i> blocks Fibronectin-induced chemotaxic motility and chemokinesis of melanoma cells. In addition to their membrane localization, the antigens detected by <i>NKI-M7</i> are abundant in extracellular adhesion plaques deposited by cultured melanoma cells. <i>NKI-M7</i> stains primary tumors heterogeneously, whereas metastases are homogeneously stained.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated



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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
Database Link:	Entrez Gene 3685 Human P06756
Background:	CD51 (Cluster of Differentiation 51), known as vitronectin receptor α chain, or integrin α V is a type I integral membrane glycoprotein. CD51 forms a heterodimer with integrin β 1 (CD29), β 3 (CD61), β 5, β 6, or β 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 β 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.
Synonyms:	Integrin alpha-V, MSK8, VNRA, Vitronectin receptor subunit alpha