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Product datasheet for BM5115

Integrin alpha 6 (ITGA6) Rat Monoclonal Antibody [Clone ID: NKI-GoH3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NKI-GoH3
Applications:	FC, IF, IHC, WB
Recommended Dilution:	**Western Blot.** **Flow Cytometry.** **Immunohistochemistry on Frozen Sections:** 1/5-1/10. *Positive Control:* Epithelial tissues. *Incubation time:* 30 min at room temperature or overnight at 2-8°C.
Reactivity:	Canine, Human, Monkey, Mouse, Porcine
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse mammary tumor cells.
Specificity:	In cutaneous melanocytic lesions, the level of expression of three integrin subunits (α2, α6, and β3) has been found to be correlated with tumor progression. This Monoclonal Antibody *GoH3*, directed against α6-integrins (Laminin receptor, VLA-6), shows a cytoplasmic staining pattern of uveal and cutaneous melanoma cells. Antibody blocks binding of integrin α6 to Laminin P1 and E8. In Western Blot reactive with two major bands of 120 and 140 kDa under*Non-Reducing Conditions.*
Formulation:	PBS, pH 7.4 State: Supernatant State: Cell Culture Supernatant Stabilizer: 0.5% BSA Preservative: 0.09% Sodium Azide
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.

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Gene Name: integrin subunit alpha 6

Database Link: Entrez Gene 3655 Human
P23229

Background: Integrins are important extracellular matrix (ECM) receptor proteins located on cell surfaces. They are hetrodimers composed of an alpha and a beta transmembrane glycoprotein subunit. Around twenty two different integrins (different alpha/ beta subunit combinations) are found in nature. Integrins are generally present in high concentrations at the cell surface, but, unlike most other cell surface receptors, they bind ligands with very low affinity. Due to their weak individual binding, integrins need to cluster and bind in groups in order to effectively bind the ECM. Integrins bind many different ligands including laminin. Each integrin is made up of a large N terminal extracellular domain that binds the ECM ligand and a small C terminal cytoplasmic domain that mediates interaction with the actin cytoskeleton and signaling function. Integrin alpha 6 complexes are receptors for laminins, which are components of basement membranes. Integrin alpha 6 complexes may play an important role in embryogenesis.

Synonyms: Integrin alpha-6, VLA-6, VLA6