

Rat anti-Human, Mouse Integrin alpha 6A / CD49f Monoclonal Antibody

Rat anti Integrin alpha 6A / CD49f

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77511	Rat	Human, Mouse	Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay

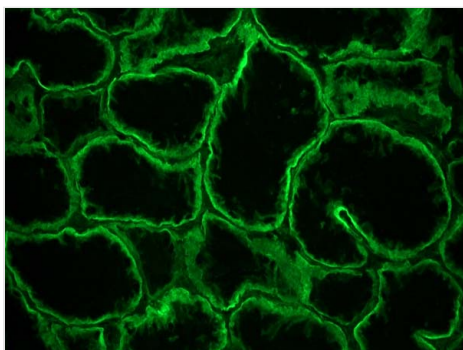
PRODUCT SYNONYMS

Integrin alpha 6A / CD49f; Monoclonal Antibody; Rat anti Integrin alpha 6A / CD49f; anti-Integrin alpha 6A / CD49f antibody

PRODUCT SPECIFICATIONS

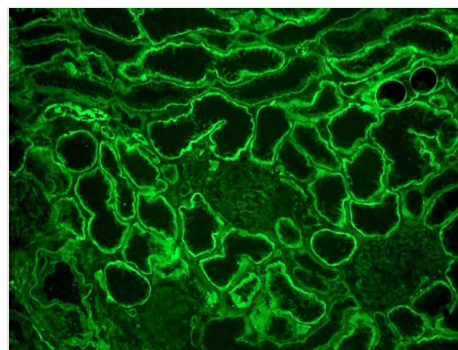
Host	Rat
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	NKI-GoH3
Specificity	The epitope recognized by GoH3 is located on glycoprotein Ic or the $\alpha 6$ subunit of integrin. This $\alpha 6$ (glycoprotein Ic) is expressed as a physical complex with glycoprotein IIa within the plasma membrane protein on platelets and with the $\beta 4$ subunit of integrin on normal epithelial cells and (colon) carcinoma cells, peripheral nerves, and endothelia. The epitope of the monoclonal antibody is still available when the Ic glycoprotein is within the complex.
Form/Format	Each vial contains 100 μ l 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-Integrin alpha 6A / CD49f antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Source Note	GoH3 is a Rat monoclonal IgG2a antibody obtained by immunizing Sprague-Dawley Rats with Mouse (Balb/c) mammary tumor cells. The fusion partner was SP2/0 Mouse myeloma cells.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



Application Data

Figure 2: Integrin alpha 6A immunostaining of the basolateral membrane of epithelial cells in a frozen section of human kidney



Application Data

Figure 1: Integrin alpha 6A immunostaining of the basolateral membrane of epithelial cells in a frozen section of human kidney

ADDITIONAL INFORMATION

Related Product Information for anti-Integrin alpha 6A / CD49f antibody	Integrins, are transmembrane glycoproteins that belong to the family of adhesion molecules. They promote interactions between cells and their environment being both other cells and the extra cellular matrix. Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated subunits, being an alpha-subunit of 95 kDa that is conserved through the superfamily and a more variable beta subunit of 150-170 kDa. More than 18 alpha and 8 beta subunits with numerous splice variant isoforms have been identified in mammals. One of the integrin alpha subunits is the integrin alpha 6 (alpha6) subunit. Integrin alpha6 (CD49f) primarily associates with the integrin beta 1 (beta1) or beta 4 (beta4) subunit to form the alpha6beta1 or laminin receptor and the alpha6beta4 heterodimer. The GoH3 monoclonal antibody recognizes cell surface antigens on epithelial cells, endothelial cells and in a variety of tissues in both Human and Mouse, and reacts with glycoproteins Ic (alpha6 integrin, also known as CD49f) complexed with glycoprotein IIa (beta1) as the VLA-6 (very late activation antigen) or laminin receptor on Human and Mouse platelets, lymphocytes, epithelial cells and a variety of other cell types. In normal epithelial cells and (colon) carcinoma cells, peripheral nerves, and endothelia however, glycoprotein Ic (alpha6) is not associated with IIa, but with a group of proteins collectively named beta4. These beta4 proteins can occur in multiple forms on certain cell types. The tumor associated homologue of this protein is the TSP-180 antigen, expressed in lung carcinomas, melanomas, Human tissue carcinomas and carcinoma cell lines but not on Human melanomas and fibroblasts. VLA-6 is expressed on peripheral T cells or thymocytes, the GoH3 monoclonal antibody induces a comitogenic signal and inhibits platelet adhesion to laminin, one of the three major components of the subendothelial matrix.
Product Categories/Family for anti-Integrin alpha 6A / CD49f antibody	CD markers; Cell adhesion; Cell adhesion; Immunology
References	Ticchioni, M., Deckert, M., Bernard, G., Calandra, D., Breittmeyer, J.P., Imbert, V., Peyron, J.F. and Bernard, A. (1995). Comitogenic effects of very late activation antigens on CD3-stimulated Human thymocytes. J Immunol 154, 1207-15. Sonnenberg, A., Janssen, H., Hogervorst, F., Calafat, J. and Hilgers, J. (1987). A complex of platelet glycoproteins Ic and IIa identified by a Rat monoclonal antibody. J Biol Chem 262, 10376-83. Hemler, M.E., Crouse, C., Takada, Y. and Sonnenberg, A. (1988). Multiple very late antigen (VLA) heterodimers on platelets. J Biol Chem 263, 7660-5.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/integrin-alpha-6a-cd49f-antibody-clone-nki-goh3-immunoprecipitation-immunohistochemistry-flow-cytometry-elisa/77511>