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Rat anti Integrin alpha 6A / CD49f

Catalogue number: **MUB0908P**

| | |
|--------------------|------------------------------------------------------------------------|
| Clone | NKI-GoH3 |
| Isotype | IgG2a |
| Product Type | Primary Antibodies |
| Units | 0.1 mg |
| Host | Rat |
| Species reactivity | Human Mouse |
| Application | Flow cytometry Immunohistochemistry (frozen) Immunoprecipitation |

Distributors

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Background

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 α -subunit of 95 kDa that is conserved through the superfamily and a more variable β subunit of 150-170 kDa. More than 18 α and 8 β subunits with numerous splice variant isoforms have been identified in mammals. One of the integrin alpha subunits is the integrin alpha 6 ($\alpha 6$) subunit. Integrin $\alpha 6$ (CD49f) primarily associates with the integrin beta 1 ($\beta 1$) or beta 4 ($\beta 4$) subunit to form the $\alpha 6\beta 1$ or laminin receptor and the $\alpha 6\beta 4$ 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 ($\alpha 6$ integrin, also known as CD49f) complexed with glycoprotein IIa ($\beta 1$) 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 ($\alpha 6$) is not associated with IIa, but with a group of proteins collectively named $\beta 4$. These $\beta 4$ 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.

Source

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.

Product

Each vial contains 100 µl 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

GoH3 can be used in flow cytometry, immunoprecipitation and immunocytochemistry. Optimal antibody dilution should be determined by titration. In immunohistochemistry staining of frozen Human tissues. GoH3 stains the basement membrane zone in skin sections, the myoepithelial cells in the mammary gland, tubules in kidney sections, acini and ducts in salivary glands, the epithelial layer in colonic crypts, the perineurium and the Schwann cells in sections of Human peripheral nerves. Smooth muscle cells, endothelial cells and striated muscle and the muscularis of the large intestine are not stained.

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.

Storage

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

References

1. 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.
2. 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.
3. 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.

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.

