

Product datasheet

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ARG23088 anti-CD49f / Integrin alpha 6 antibody [NKI-GoH3] (PE)

Package: 50 tests Store at: 4°C

Summary

Product Description PE-conjugated Rat Monoclonal antibody [NKI-GoH3] recognizes CD49f / Integrin alpha 6

Rat anti Human CD49f antibody, clone NKI-GoH3 recognizes CD49f, also known as the VLA-6 alpha chain, CD49f is a 1107 amino acid ~120 kDa cell surface glycoprotein that forms distinct complexes with CD29 (VLA beta-chain), resulting in the VLA-6 (alpha-6 beta-1) complex, expressed on human platelets, or with the beta-4 integrin resulting in the alpha-6 beta-4 complex expressed on various human epithelial cells. Rat anti Human CD49f antibody, clone NKI-GoH3 reacts with platelets, megakaryocytes, T lymphocytes and common Acute Lymphoblastic Leukaemia cells (alpha-6 beta-1). In immunohistology the monoclonal antibody reacts with epithelial cells of a variety of tissues, peripheral nerves, microvascular endothelial cells, placenta cyto- and syncytotrophoblasts.VLA-6 is an important mediator

of cell binding to laminin. Rat anti Human CD49f antibody, clone NKI-GoH3 blocks the binding of cells to the E8 fragment of laminin (Sonnenberg et al. 1998).

Tested Reactivity Hu, Ms, Dog, Pig, Sheep

Tested Application FACS
Host Rat

Clonality Monoclonal

Clone NKI-GoH3

Isotype IgG2a

Target Name CD49f / Integrin alpha 6

Species Human

Immunogen BALB/c Mouse mammary tumour cells.

Conjugation PE

Alternate Names CD49 antigen-like family member F; ITGA6B; Alpha6p; VLA-6; CD antigen CD49f; CD49f; Integrin alpha-6

Application Instructions

Application table

Application Dilution

FACS Neat

Application Note FACS: Use 10 μl of the suggested working dilution to label 106 platelets in 100 μl.

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose

Preservative 0.09% Sodium azide

Stabilizer 1% BSA and 5% Sucrose

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol ITGA6

Gene Full Name integrin, alpha 6

Background The ITGA6 protein product is the integrin alpha chain alpha 6. Integrins are integral cell-surface proteins

composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. For example, alpha 6 may combine with beta 4 in the integrin referred to as TSP180, or with beta 1 in the integrin VLA-6. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Two transcript variants encoding different isoforms have been

found for this gene. [provided by RefSeq, Jul 2008]

Function Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for

laminin in epithelial cells and it plays a critical structural role in the hemidesmosome. [UniProt]

Calculated Mw 127 kDa

PTM Isoforms containing segment A, but not segment B, are the major targets for PMA-induced

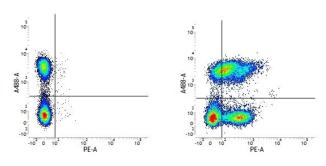
phosphorylation. Phosphorylation occurs on 'Ser-1103' of isoform alpha-6X1X2A. Phosphorylation is not required for the induction of integrin alpha-6A/beta-1 high affinity but may reduce the affinity for

ligand.

In invasive prostate cancer ITGA6 undergoes PLAU-mediated cleavage at residues Arg-634-635-Arg in a

time-dependent manner enhancing cell invasion and migration in vitro. Palmitoylation by DHHC3 enhances stability and cell surface expression.

Images



ARG23088 anti-CD49f / Integrin alpha 6 antibody [NKI-GoH3] (PE) FACS image

Flow Cytometry: Figure A. Alexa Fluor488 conjugated Mouse anti Human CD3 and PE-conjugated Rat IgG2a isotype control. Figure B. Alexa Fluor488 conjugated Mouse anti Human CD3 and ARG23088 anti-CD49f / Integrin alpha 6 antibody [NKI-GoH3] (PE). All experiments performed on Human peripheral blood lymphocytes.