Anti-Mouse CD49f Antibody, Clone GoH3, APC

Antibodies

Rat monoclonal IgG2a antibody against human, mouse, rhesus CD49f (integrin α6), APC-conjugated

Catalog #60037AZ #60037AZ.1 100 Tests 5 µL/test 25 Tests 5 µL/test



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Product Description

The GoH3 antibody reacts with CD49f (integrin α6), an ~150 kDa transmembrane glycoprotein that associates non-covalently with CD29 (integrin β1) or CD104 (integrin β4) to form the heterodimeric receptors VLA-6 and α6β4, which bind the extracellular matrix protein laminin. CD49f is a disulfide-linked dimer comprising an ~120 kDa heavy chain and an ~30 kDa membrane-bound light chain. Splice variants exist, which affect the cytoplasmic domain of the protein. CD49f is expressed on the surface of T cells, monocytes, platelets, placental trophoblasts, epithelial cells, and endothelial cells. It is involved in cell adhesion and regulating signaling pathways involved in a variety of processes, including the activation and proliferation of T cells, and the differentiation and maintenance of stem cell pluripotency. CD49f is considered the most important marker for selecting mouse mammary stem and progenitor cells. The GoH3 antibody reacts with an extracellular epitope on CD49f and reportedly blocks integrin α6 function in vivo and binding of integrin α6 to laminin in vitro.

Target Antigen Name: CD49f (Integrin α6)

Alternative Names: α6 integrin, integrin α6, VLA-6α chain

Gene ID: 16403/3655

Species Reactivity: Human, Mouse, Rhesus, Cynomolgus, Baboon, Chimpanzee, Capuchin Monkey, Cat, Cow, Dog, Horse, Pig,

Rabbit, Sheep

Host Species: Rat (SD) Clonality: Monoclonal Clone: GoH3

Isotype: IgG2a, kappa

Immunogen: Mouse (BALB/c) mammary tumor cells

Conjugate: APC (Allophycocyanin)

Applications

Verified: FC Reported: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry: ICC: Immunocytochemistry: IF: Immunofluorescence microscopy: IHC: Immunohistochemistry: IP: Immunoprecipitation: RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin Purification:

The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The

solution is free of unconjugated APC.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to

light. For product expiry date, please contact techsupport@stemcell.com.

Directions for Use: For flow cytometry, the suggested use of this antibody is $\leq 5 \,\mu\text{L}$ per 1 x 10^6 cells in 100 μL . It is

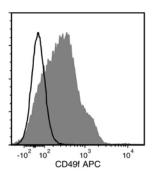
recommended that the antibody be titrated for optimal performance for each application.

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Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Mouse CD49f Antibody, Clone GoH3, APC (filled histogram) or Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, APC (Catalog #60076AZ) (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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