

PE/Cy7 anti-human CD49a

Catalog # / Size: 2241560 / 100 tests
2241555 / 25 tests

Clone: TS2/7

Isotype: Mouse IgG1, κ

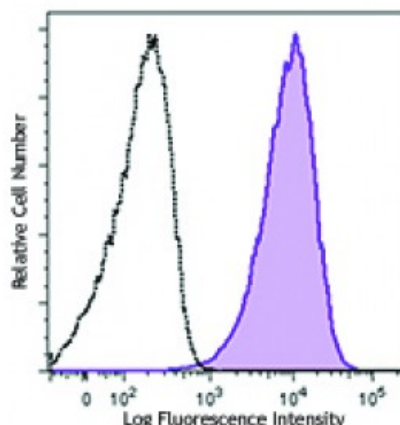
Immunogen: Human CTL line

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



HeLa cells (Human cervical cancer cell lines) were stained with CD49a (clone TS2/7) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications include: immunoprecipitation (1) and immunohistochemical staining (1) of acetone-fixed frozen tissue sections

Application References: 1. Hemler ME, *et al.* 1984. *J. Immunol.* 132:3011
2. Hemler ME, *et al.* 1985. *J. Biol. Chem.* 260:15246

Description: CD49a is a 200 kD type I transmembrane glycoprotein also known as α_1 integrin, VLA-1 α chain, or Integrin α_1 . It associates with CD29 (β_1 integrin) to form VLA-1 complex, a collagen IV and alminin-1 receptor. It is expressed on activated T cells, monocytes, NK cells, smooth muscle cells, neuronal cells, fibroblasts, and mesenchymal cells. CD49a is an adhesion molecule and is involved in the regulation of leukocyte migration, T cell proliferation, and cytokine production.

Antigen References: 1. Zola H, *et al.* Eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers.* Wiley-Liss Press. p122
2. Boiret N, *et al.* 2005. *Exp. Hematol.* 33:219