SONY

Product Data Sheet

FITC anti-human CD49a

Catalog # / Size: 2241535 / 25 tests
2241540 / 100 tests

Clone: TS2/7

Isotype: Mouse IgG1, κ

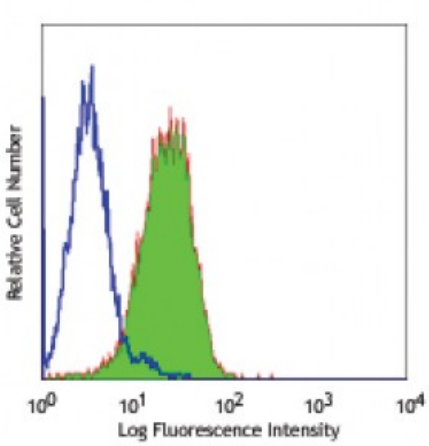
Immunogen: Human CTL line

Reactivity: Human

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

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

Concentration: Lot-specific



Human cervical cancer cell line, Hela, stained with TS2/7 FITC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or 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

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com