

APC/Cyanine7 anti-human CD18

Catalog # / 2110670 / 100 tests
Size: 2110665 / 25 tests

Clone: TS1/18

Isotype: Mouse IgG1, κ

Immunogen: Full-length FOXP3 protein

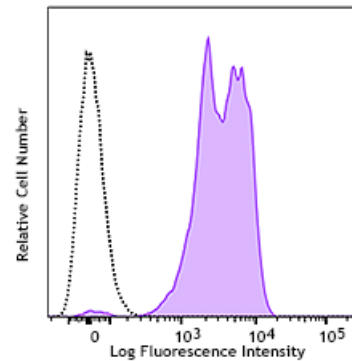
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

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

Workshop Number: V AS162

Concentration: Lot-specific



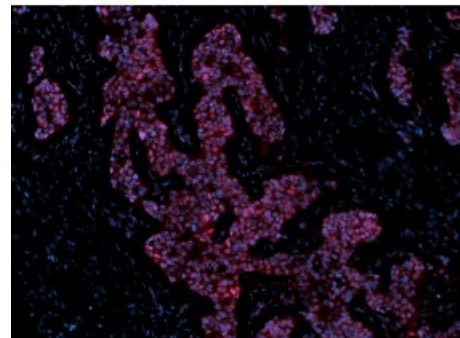
Human peripheral blood lymphocytes were stained with anti-human CD18 (clone TS1/18) APC/Cyanine7 (filled histogram) or mouse IgG1, κ APC/Cyanine7 isotype control (open histogram).

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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: inhibition of cell adhesion and migration^{3,4}.



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 μg/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

**Application
References:**

1. Schlossman S, et al. 1995. Leucocyte Typing V. Oxford University Press. New York.
 2. Kishimoto T, et al. 1997. Leucocyte Typing VI. Garland Press. London.
 3. Van Epps DE, et al. 1989. *J. Immunol.* 143:3207. (Block)
 4. Meerschaert J, et al. 1994. *J. Immunol.* 152:1915. (Block)
 5. Sithu SD, et al. 2007. *J. Biol. Chem.* doi:10.1074/jbc.M611273200.
 6. Sommaggio R, et al. 2012. *J. Immunol.* 188:2075. [PubMed](#)
 7. Valenzuela NM, et al. 2013. *J. Immunol.* 190:6635. [PubMed](#)
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Description: CD18 is a 90-95 kD type I transmembrane protein also known as integrin β_2 subunit, LFA-1 β subunit, and β_2 integrin. CD18 non-covalently associates with CD11a, CD11b or CD11c. CD18 is expressed on all leukocytes. CD18 and associated α chains function in adhesion and signaling in hematopoietic cells.

**Antigen
References:**

1. Anderson D, et al. 1987. *Annu. Rev. Med.* 38:175.
2. Springer T. 1994. *Cell* 76:301.