SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-human CD18

Catalog # / Size: 2110595 / 25 tests
2110600 / 100 tests

Clone: TS1/18

Isotype: Mouse IgG1, κ

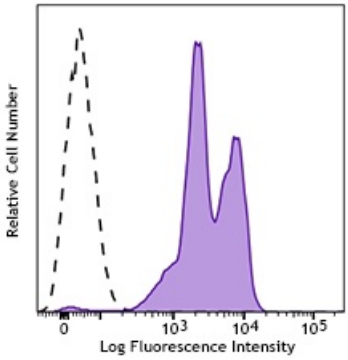
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: V AS162

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD18 (clone TS1/18) PerCP/Cyanine5.5 (filled histogram), or mouse IgG1, κ PerCP/Cyanine5.5 isotype control (open histogram).

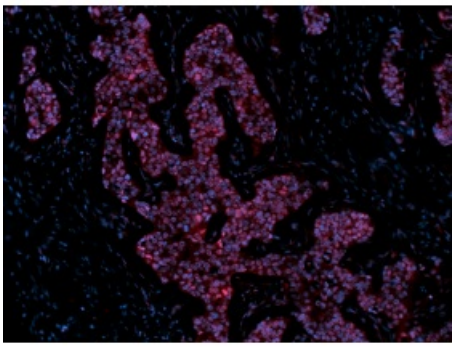
Applications:

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: inhibition of cell adhesion and migration[3,4]. The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 302112). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 302116) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).



For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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

---

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.