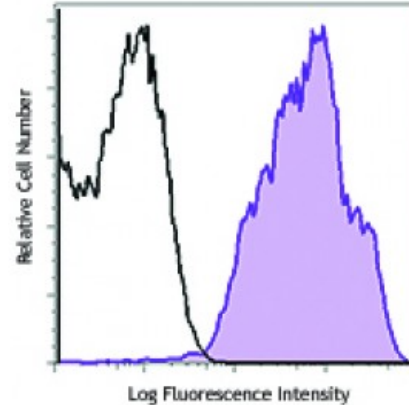


**PerCP/Cy5.5 anti-human CD18**

<b>Catalog # / Size:</b>	2110595 / 25 tests 2110600 / 100 tests
<b>Clone:</b>	TS1/18
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	V AS162
<b>Concentration:</b>	0.5



Human peripheral blood lymphocytes were stained with CD18 (clone TS1/18) PerCP/Cy5.5 (filled histogram) or mouse IgG1,  $\kappa$  PerCP/Cy5.5 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 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.
- \* 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<sup>3,4</sup>. The LEAF™ Purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m 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).
- Application References:**
- Schlossman S, *et al.* 1995. Leucocyte Typing V. Oxford University Press. New York.
  - Kishimoto T, *et al.* 1997. Leucocyte Typing VI. Garland Press. London.
  - Van Epps DE, *et al.* 1989. *J. Immunol.* 143:3207. (Block)
  - Meerschaert J, *et al.* 1994. *J. Immunol.* 152:1915. (Block)
  - Sithu SD, *et al.* 2007. *J. Biol. Chem.* doi:10.1074/jbc.M611273200.
  - Sommaggio R, *et al.* 2012. *J. Immunol.* 188:2075. [PubMed](#)
  - 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  $\beta_2$  subunit, LFA-1  $\beta$  subunit, and  $\beta_2$  integrin. CD18 non-covalently associates with CD11a, CD11b or CD11c. CD18 is expressed on all leukocytes. CD18 and associated  $\alpha$  chains function in adhesion and signaling in hematopoietic cells.

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