

LEAF™ Purified anti-human CD18

Catalog # / Size: 302111 / 50 µg
302112 / 500 µg

Clone: TS1/18

Isotype: Mouse IgG1, κ

Workshop Number: V AS162

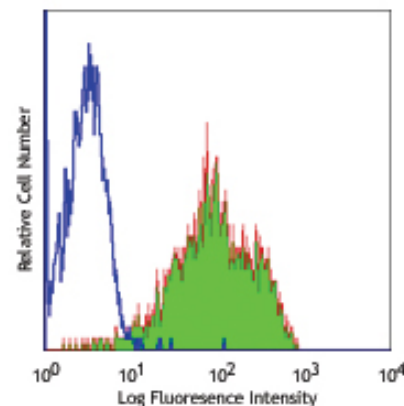
Reactivity: Human, **Cross-Reactivity:** Swine (Pig, Porcine)

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood lymphocytes stained with purified TS1/18, followed by anti-mouse IgGs FITC.

Applications:

Applications: FC - *Quality tested*
Block - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume or 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}. 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/µg).

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.

Description: CD18 is a 90-95 kD type I transmembrane protein also known as integrin β₂ subunit, LFA-1 β subunit, and β₂ 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:

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

Related Products:

Product	Clone	Application
Purified anti-human CD11c	3.9	FC, IHC, CyTOF®
LEAF™ Purified anti-human CD11a	HI111	FC, Block, IHC, WB
LEAF™ Purified anti-human CD11b	ICRF44	Block, FC, IF, IHC, CyTOF®
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA



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