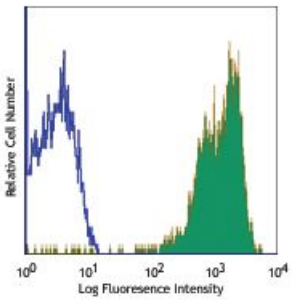
SONY

Product Data Sheet

PE anti-human CD18

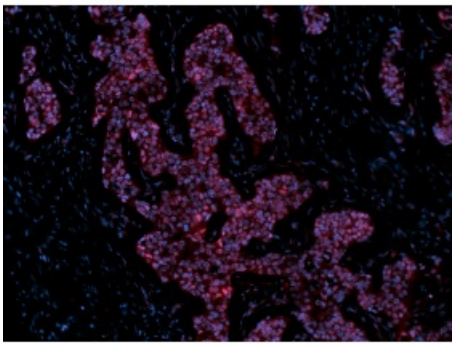
Catalog # / Size:	2110535 / 25 tests 2110540 / 100 tests
Clone:	TS1/18
Isotype:	Mouse IgG1, κ
Reactivity:	Human, Other
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	V AS162
Concentration:	Lot-specific



Human peripheral blood lymphocytes stained with TS1/18 PE

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 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or 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]. 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).



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.

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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.

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