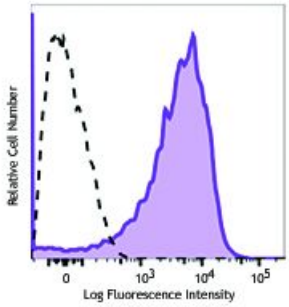
SONY

Product Data Sheet

PE/Cyanine7 anti-human CD58 (LFA-3)

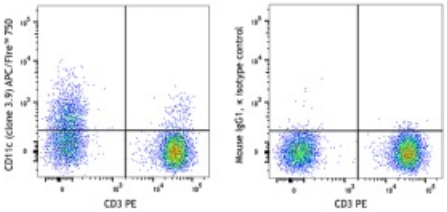
Catalog # / Size:	2254580 / 100 tests 2254575 / 25 tests
Clone:	TS2/9
Isotype:	Mouse IgG1, κ
Immunogen:	Human cytolytic T cells
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	IV T-186
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD58 (clone TS2/9) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 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.
Application Notes:	Additional reported applications include: immunoprecipitation1, inhibition of cytolytic activity1, augment of IL-1 release by TE cells2



Human peripheral blood lymphocytes were stained with PE anti-human CD3 and APC/Fire™ 750 anti-human CD11c (clone 3.9) (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

Application References:

1. Sanchez-Madrid F, *et al.* 1982. *Proc. Nati Acad. Sci.* USA. 79:7489
2. Le PT, *et al.* 1990. *J. Immunol.* 144:4541

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Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: CD58, also known as lymphocyte function-associated antigen 3 (LFA-3) is a 45-70 kD cell surface protein that is a member of the immunoglobulin superfamily. Alternative splicing of CD58 gives rise to transmembrane and glycosylphosphatidylinositol (GPI)-anchored forms on cell surface. CD58 is expressed on both hematopoietic and non-hematopoietic cells including B cells, T cells, monocytes, erythrocytes, endothelial cells, epithelial cells, and fibroblasts. High levels are observed on memory T cells and dendritic cells. CD58 expressed on antigen presenting cells and target cells enhances T cell recognition via the binding of it's cognate ligand, CD2, on the T cell surface. The HCD58 antibody recognizes human CD58 and has been shown to be useful for flow cytometry.

Antigen References:

1. Springer TA, *et al.* 1987. *Annu. Rev. Immunol.* 5:223.
2. Dustin ML, *et al.* 1987. *Nature* 329:846.
3. Arulanandam AR, *et al.* 1994. *J. Exp. Med.* 180:1861.
4. Sanders ME, *et al.* 1988. *J. Immunol.* 140:1401.

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