

**PE anti-human CD58 (LFA-3)**

**Catalog # / Size:** 2254640 / 100 tests  
2254525 / 25 tests

**Clone:** TS2/9

**Isotype:** Mouse IgG1, κ

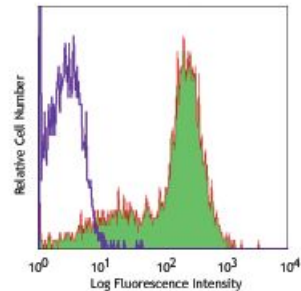
**Immunogen:** Human cytolytic T cells

**Reactivity:** Human, Non-human primate, Other, Baboon

**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 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood lymphocytes stained with TS2/9 PE

**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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

**Application Notes:** Additional reported applications include: immunoprecipitation<sup>1</sup>, inhibition of cytolytic activity<sup>1</sup>, augment of IL-1 release by TE cells<sup>2</sup>

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

**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.

**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.