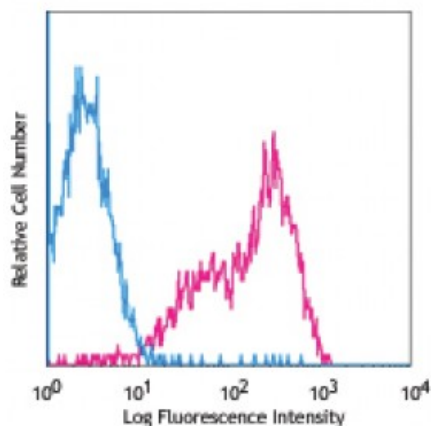


**PE/Cy5 anti-human CD58****Catalog # / Size:** 2254545 / 25 tests**Clone:** TS2/9**Isotype:** Mouse IgG1,  $\kappa$ **Immunogen:** Human cytolytic T cells**Reactivity:** Human**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.**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/Cy5

**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 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**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 its 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.*