

## Purified anti-human CD58 (LFA-3)

**Catalog # / Size:** 330902 / 100 µg

**Clone:** TS2/9

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human cytolytic T cells

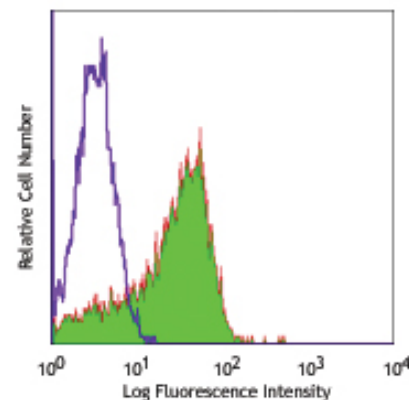
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified TS2/9, followed by anti-mouse IgG FITC

## Applications:

**Applications:** FC - Quality tested  
IP - 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  $\leq 1.0$  µg per  $10^6$  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 include: immunoprecipitation<sup>1</sup>, inhibition of cytolytic activity<sup>1</sup> and augment of IL-1 release by TE cells<sup>2</sup>.

**Application References:** 1. Sanchez-Madrid F, *et al.* 1982. *P. 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.* 1988. *J. Immunol.* 140:1401.

### Related Products:

Product  
Purified Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

Clone  
MG1-45

Application  
FC, ICC, ICFC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



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