BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-human CD58 (LFA-3)

Catalog # / Size: 330911 / 50 µg
330912 / 500 µg

Clone: TS2/9

Isotype: Mouse IgG1, κ

Immunogen: Human cytolytic T cells

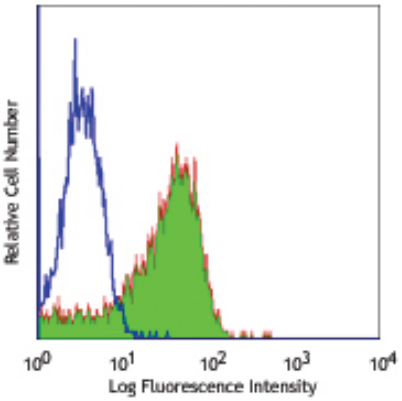
Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

Applications:

Applications: FC - *Quality tested*
IP, IHC, Block - *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 ≤2.0 µg per million 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[1], inhibition of cytolytic activity[1] and augment of IL-1 release by TE cells[2].

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 surfaces. 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	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC

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