

## APC anti-human CD58 (LFA-3) Antibody

<b>Catalog# / Size</b>	330917 / 25 tests 330918 / 100 tests
<b>Clone</b>	TS2/9
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Lymphocyte function-associated antigen 3, LFA-3
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human cytolytic T cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	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>
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Sanchez-Madrid F, <i>et al.</i> 1982. <i>Proc. Natl Acad. Sci. USA.</i> 79:7489</li><li>2. Le PT, <i>et al.</i> 1990. <i>J. Immunol.</i> 144:4541</li></ol>
<b>RRID</b>	AB_2650885 (BioLegend Cat. No. 330917) AB_2650886 (BioLegend Cat. No. 330918)

### Antigen Details

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<b>Structure</b>	Immunoglobulin superfamily member, 45-70 kD cell surface protein. Alternative splicing gives rise to transmembrane and glycosylphosphatidylinositol (GPI)-anchored form on cell surface.
<b>Distribution</b>	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.
<b>Function</b>	Mediates adhesion between various cell types (target cells and cytotoxic cells, APC and T cells, thymocytes and thymic epithelia).
<b>Ligand/Receptor</b>	CD2
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Springer TA, <i>et al.</i> 1987. <i>Annu. Rev. Immunol.</i> 5:223.</li> <li>2. Dustin ML, <i>et al.</i> 1987. <i>Nature</i> 329:846.</li> <li>3. Arulanandam AR, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 180:1861.</li> <li>4. Sanders ME, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:1401.</li> </ol>
<b>Gene ID</b>	<a href="#">965</a>

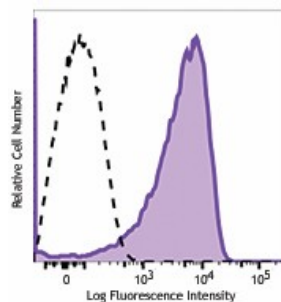
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD58 (LFA-3), PE anti-human CD58 (LFA-3), PE/Cyanine5 anti-human CD58, PerCP/Cyanine5.5 anti-human CD58 (LFA-3), PE/Cyanine7 anti-human CD58 (LFA-3), APC anti-human CD58 (LFA-3), TotalSeq™-A0174 anti-human CD58 (LFA-3), TotalSeq™-C0174 anti-human CD58 (LFA-3), Ultra-LEAF™ Purified anti-human CD58 (LFA-3), TotalSeq™-B0174 anti-human CD58 (LFA-3), TotalSeq™-D0174 anti-human CD58 (LFA-3)

## Product Data



Human peripheral blood lymphocytes were stained with CD58 (clone TS2/9) APC (filled histogram) or mouse IgG1,  $\kappa$  APC isotype control (open histogram).

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