

## PerCP/Fire™ 780 anti-mouse CD38 Antibody

<b>Catalog# / Size</b>	165617 / 25 µg 165618 / 100 µg
<b>Clone</b>	S21016F
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	T10
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	CD38, also known as T10, is a 45 kD type II transmembrane glycoprotein. It is an ADP-ribosyl hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscle, and kidney). By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is thought to be a ligand of CD38.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse CD38 transfected cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 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 ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone S21016F can completely block the binding of clone "90" on target cells.
<b>RRID</b>	AB_3683184 (BioLegend Cat. No. 165617) AB_3683184 (BioLegend Cat. No. 165618)

### Antigen Details

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<b>Structure</b>	ADP-ribosyl hydrolase, 42 kD
<b>Distribution</b>	B cells, NK cells, T cell subset, brain, muscle, kidney
<b>Function</b>	Regulation of cellular activation/proliferation, adhesion, metabolism of cADPR and NAADP

<b>Ligand/Receptor</b>	CD31, hyaluronic acid
<b>Cell Type</b>	B cells, Lymphocytes, NK cells, T cells
<b>Biology Area</b>	Cell Biology, Costimulatory Molecules, Immuno-Oncology, Immunology
<b>Molecular Family</b>	CD Molecules

#### Antigen References

1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook Academic Press.*
2. Shubinsky G, *et al.* 1997. *Immunity.* 7:315-24.
3. Cesano A, *et al.* 1998. *J Immunol.* 160:1106-15.
4. Cockayne DA, *et al.* 1998. *Blood.* 92:1324-33.

**Gene ID** [12494](#)

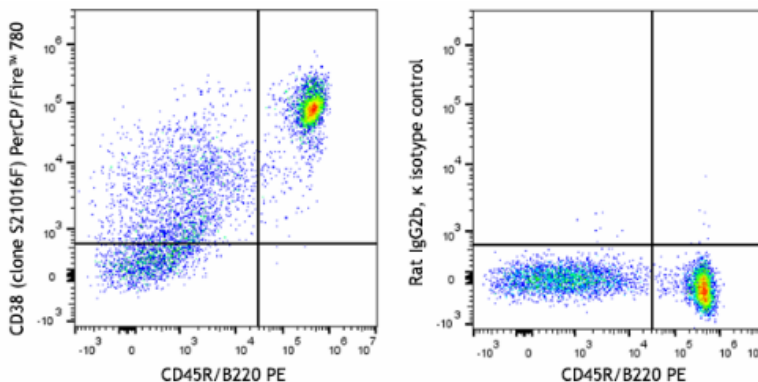
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD38, APC anti-mouse CD38, APC/Fire™ 750 anti-mouse CD38, FITC anti-mouse CD38, PE anti-mouse CD38, PE/Cyanine7 anti-mouse CD38, PerCP/Cyanine5.5 anti-mouse CD38, Pacific Blue™ anti-mouse CD38, PerCP/Fire™ 780 anti-mouse CD38 Antibody, Spark Blue™ 550 anti-mouse CD38 (Flexi-Fluor™), Spark Blue™ 574 anti-mouse CD38 (Flexi-Fluor™), Spark Red™ 718 anti-mouse CD38 (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD38 Antibody

## Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD45R/B220 (clone RA3-6B2) PE and anti-mouse CD38 (clone S21016F) PerCP/Fire™ 780 (left) or rat IgG2b, κ PerCP/Fire™ 780 isotype control (right).

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8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587