

## APC anti-mouse Blimp-1 Antibody

<b>Catalog# / Size</b>	150007 / 25 µg 150008 / 100 µg
<b>Clone</b>	5E7
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	PR domain zinc finger protein 1, B lymphocyte-induced maturation protein-1, PRDM1, BLIMP1, PRDI-BF1, ZNFPR1A1, PRDM-1, BLIMP1
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	Blimp-1, also known as PRDM1, is a 98 kD protein containing 5 Kruppel-type zinc finger domains. Blimp-1 represses the transcription factors BCL6 and c-Myc. It is the master regulator of terminal B cell differentiation and is also involved in the differentiation and homeostasis of T cells and natural killer (NK) cells.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Amino acids 255-395 from mouse Blimp-1 fused with GST.
<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 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="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by intracellular flow cytometry using our <a href="#">True-Nuclear™ Transcription Factor Staining Protocol</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 µg per million cells in 100 µl volume. 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>	<b>NOTE:</b> For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. <a href="#">424401</a> ) offers improved staining and is highly recommended.
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Marro BS, <i>et al.</i> 2019. Cell Rep. 29:3293. <a href="#">PubMed</a></li><li>2. Pioli PD, <i>et al.</i> 2020. Immunity. 51(2):351-366. <a href="#">PubMed</a></li><li>3. Shafiei-Jahani P, <i>et al.</i> 2021. Nat Commun. 12:2526. <a href="#">PubMed</a></li><li>4. Si J, <i>et al.</i> 2020. Cancer Cell. 38(4):551-566.e11. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2728186 (BioLegend Cat. No. 150007) AB_2728187 (BioLegend Cat. No. 150008)

### Antigen Details

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<b>Structure</b>	Five Kruppel-type zinc finger domains, 98 kD.
<b>Distribution</b>	Plasma cells, CD4 <sup>+</sup> and CD8 <sup>+</sup> effector/memory T cells, and natural killer cells.

<b>Function</b>	Terminal differentiation of B cells, effector/memory T cells, role in natural killer cells (NK) and T cell homeostasis, and repressor of BCL6 and c-Myc.
<b>Cell Type</b>	Plasma cells, T cells, NK cells, B cells
<b>Biology Area</b>	Cell Biology, Immunology, Transcription Factors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Nakaki F, <i>et al.</i> 2013. <i>Nature</i> 501:222.</li> <li>2. Crotty S, <i>et al.</i> 2010. <i>Nat. Immunol.</i> 11:114.</li> <li>3. Zhao WL, <i>et al.</i> 2008. <i>Blood</i> 111:3867.</li> <li>4. Climmino L, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:2338.</li> <li>5. Martins, G and Clarne, K. 2008. <i>Annu. Rev. Immunol.</i> 26:133.</li> </ol>
<b>Gene ID</b>	<a href="#">12142</a>

## Related Protocols

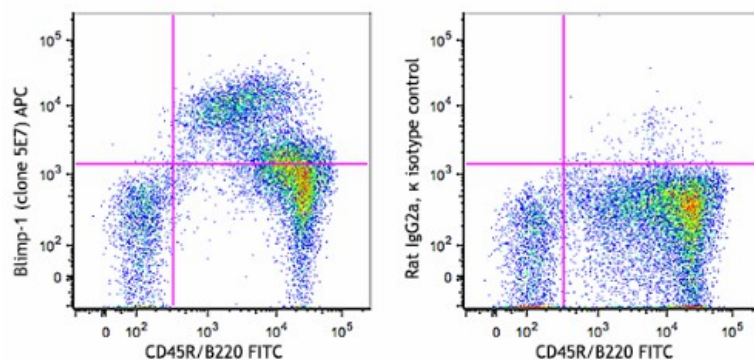
[True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)

[True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)

## Other Formats

Alexa Fluor® 647 anti-mouse Blimp-1, PE anti-mouse Blimp-1, APC anti-mouse Blimp-1

## Product Data



Balb/c splenocytes were cultured 3 days in the presence of LPS, then stained with CD45R/B220 FITC, followed by fixation and permeabilization using True-Nuclear™ fixation and permeabilization buffer set. Cells were then stained with Blimp-1 (clone 5E7) APC (left) or rat IgG2a, κ Isotype control APC (right).

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