

APC anti-mouse Blimp-1 Antibody

Catalog# / Size	150007 / 25 µg 150008 / 100 µg
Clone	5E7
Regulatory Status	RUO
Other Names	PR domain zinc finger protein 1, B lymphocyte-induced maturation protein-1, PRDM1, BLIMP1, PRDI-BF1, ZNFPR1A1, PRDM-1, BLIMP1
Isotype	Rat IgG2a, κ
Description	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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Amino acids 255-395 from mouse Blimp-1 fused with GST.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Nuclear™ Transcription Factor Staining Protocol . 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.
Excitation Laser	Red Laser (633 nm)
Application Notes	NOTE: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401) offers improved staining and is highly recommended.
Product Citations	<ol style="list-style-type: none">1. Marro BS, <i>et al.</i> 2019. Cell Rep. 29:3293. PubMed2. Pioli PD, <i>et al.</i> 2020. Immunity. 51(2):351-366. PubMed3. Shafiei-Jahani P, <i>et al.</i> 2021. Nat Commun. 12:2526. PubMed4. Si J, <i>et al.</i> 2020. Cancer Cell. 38(4):551-566.e11. PubMed
RRID	AB_2728186 (BioLegend Cat. No. 150007) AB_2728187 (BioLegend Cat. No. 150008)

Antigen Details

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

Function	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.
Cell Type	Plasma cells, T cells, NK cells, B cells
Biology Area	Cell Biology, Immunology, Transcription Factors
Antigen References	<ol style="list-style-type: none"> 1. Nakaki F, <i>et al.</i> 2013. <i>Nature</i> 501:222. 2. Crotty S, <i>et al.</i> 2010. <i>Nat. Immunol.</i> 11:114. 3. Zhao WL, <i>et al.</i> 2008. <i>Blood</i> 111:3867. 4. Climmino L, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:2338. 5. Martins, G and Clarne, K. 2008. <i>Annu. Rev. Immunol.</i> 26:133.
Gene ID	12142

Related Protocols

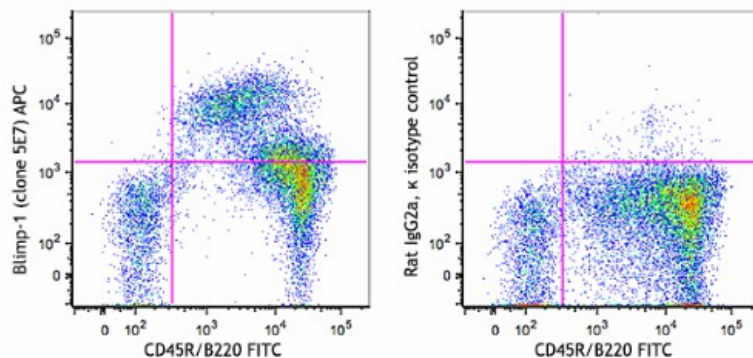
[True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)

[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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