

Purified anti-Blimp-1 Antibody

Catalog# / Size	648202 / 100 µg
Clone	ROS195G
Regulatory Status	RUO
Other Names	B lymphocyte-induced maturation protein-1, PRDM-1, BLIMP1
Isotype	Mouse IgG1
Description	Blimp-1 is a 98 Kd protein containing five Kuppel-type zinc finger domains that confer sequence specific DNA binding. It has been postulated to be a master regulator of terminal B cell differentiation. In the BCL-1 lymphoma model of differentiation from mature B cells to plasma cells, ectopic expression of Blimp-1 is sufficient to cause terminal differentiation manifested by loss of surface immunoglobulin, IgM secretion, expression of syndecan-1 and cessation of cell division. Recently, it is reported that Blimp-1 is also involved in T cell differentiation and T cell homeostasis and suppression of IL-2 production.

Product Details

Verified Reactivity	Human
Reported Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant GST-blimp-1 protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	WB - Quality tested IHC, IP, ICC, ELISA - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 5 µg per mL. It is recommended that the reagent be titrated for optimal performance for each application.
Application References	1. Garcia JF, <i>et al.</i> 2006. <i>Haematologica</i> 91:467. 2. Traver M, <i>et al.</i> 2012. <i>Blood</i> . 119:5795. PubMed 3. Tsao HW, <i>et al.</i> 2013. <i>PNAS</i> . 110:15776. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Tsao H, <i>et al.</i> 2013. <i>Proc Natl Acad Sci U S A</i> . 110:15776. PubMed 2. Yu L, <i>et al.</i> 2020. <i>Cell Stem Cell</i> . 28(3):550-567.e12. PubMed 3. Traver M, <i>et al.</i> 2012. <i>Blood</i> . 119:5795. PubMed 4. Xu W, <i>et al.</i> 2021. <i>Immunity</i> . 54(3):526-541.e7. PubMed
RRID	AB_2300132 (BioLegend Cat. No. 648202)

Antigen Details

Structure	98 Kd protein containing five Kruppel-type zinc finger domains
------------------	--

Distribution	Expressed in CD4+ and CD8+ effector/memory T cells and in Foxp3+ T reg cells. In the B cell lineage, it is specifically expressed in the antibody secreting cells.
Function	A transcription repressor expressed in B and T cells.
Cell Type	B cells, T cells, Tregs
Biology Area	Immunology
Molecular Family	Nuclear Markers
Antigen References	1. Zhao WL, <i>et al.</i> 2008. <i>Blood</i> 111:3867. 2. Climmino L, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:2338. 3. Martins G and Calame K. 2008. <i>Annu Rev Immunol.</i> 26:133.
Gene ID	639

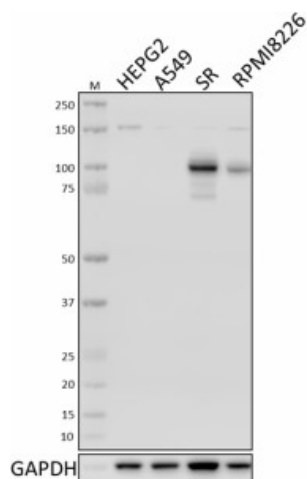
Related Protocols

[Western Blotting Protocol](#)

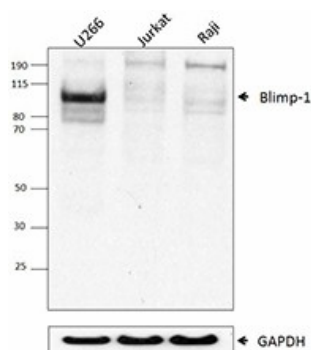
Other Formats

Purified anti-Blimp-1

Product Data



Total cell lysates (15 µg total protein) from HEPG2 (negative control), A549 (negative control), SR and RPMI8226 cells were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a nitrocellulose membrane, and probed with 2.0 µg/mL of Purified anti-Blimp1 Antibody, clone ROS195G, overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG Antibody (Cat. No. 405306) at a 1:3000 dilution. Direct-Blot™ HRP anti-GAPDH Antibody (Cat. No. 607904) was used as a loading control at a 1:50000 dilution (lower). Lane M: Molecular Weight marker.



Total cell lysates (15 µg protein) from U266, Jurkat and Raji were resolved by 4-12% Bis-tris gel electrophoresis, transferred to nitrocellulose, and probed with anti-Blimp-1 (clone ROS195G). Proteins were visualized using a goat anti-mouse IgG secondary antibody conjugated to HRP and chemiluminescence detection. Purified anti-GAPDH antibody was used as a loading control.

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally

similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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