## **Product Data Sheet**

## Alexa Fluor<sup>®</sup> 647 anti-mouse Blimp-1 Flow Kit

Catalog # / Size:	1349510 / 100 tests
Clone:	5E7, RTK2758
Isotype:	Rat IgG2a, к
Immunogen:	Amino acids 255-395 from mouse Blimp-1 fused with GST.
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	0.5



Balb/c spleen cells were cultured for four days in presence of LPS. Then the cells were stained with CD45R/B220 PE, followed by fixation and permeabilization with True-Nuclear<sup>™</sup> Transcription Factor Buffer Set, and staining with Blimp-1 (clone 5E7) A

## **Applications:**

Applications:	Flow Cytometry
Application Notes:	<ul> <li>Materials Provided:</li> <li>1. Alexa Fluor® 647 anti-mouse Blimp-1</li> <li>100 tests</li> <li>2. Alexa Fluor® 647 Rat IgG2a, κ</li> <li>isotype control - 100 tests</li> <li>3. True-Nuclear™ Transcription Factor</li> <li>Buffer Set - 120 tests (Cat. No. 424401)</li> </ul>
	Materials Not Included: 1. Cell Staining Buffer (Cat. No. 420201)
	Immunofluorescence Staining Procedures:

 Perform cell surface staining as described in BioLegend's <u>Cell Surface</u> <u>Immunofluorescence Staining Protocol</u>.
 Add 1 mL of the Transcription Factor 1X Fix solution to each tube, vortex and incubate at room temperature in the dark for 30-60 minutes.
 Without washing, add 2 mL of the Transcription Factor 1X Perm Buffer to each tube.
 Centrifuge tubes at 300-400 x g at room temperature for five minutes, and discard the supernatant.
 Add 2 mL of the Transcription Factor

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1X Perm Buffer to each tube.
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Application References:	<ul> <li>6. Centrifuge tubes at 300-400 x g at room temperature for five minutes, and discard the supernatant.</li> <li>7. Resuspend the cell pellet in 100 microl. of the Transcription Factor 1X Perm Buffer.</li> <li>8. Add 5 microL of anti-Bilmp-1 mAb 5E7 or isotype control to the corresponding tubes and incubate in the dark at room temperature for at least 30 minutes.</li> <li>9. Add 2 mL of the Transcription Factor 1X Perm Buffer to each tube.</li> <li>10. Centrifuge tubes at 300-400 x g at room temperature for five minutes, and discard the supernatant.</li> <li>11. Add 2 mL of cell staining buffer.</li> <li>12. Centrifuge tubes at 300-400 x g at room temperature for five minutes, and discard the supernatant.</li> <li>13. Resuspend in 0.5 mL cell staining buffer then acquire the tubes on a flow cytometer.</li> </ul> <b>Caution:</b> The True-Nuclear <sup>™</sup> Transcription Factor Buffer Set contains paraformaldehyde, which is toxic and mutagenic. Please handle with caution. Wear gloves, lab coats, and necessary protection to avoid direct contact. 1. Kallies A, et al. 2011. Blood 117:1869. (WB) 3. Mould AW, et al. 2015. PLoS Genet. 11:e1005375. (WB)
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.
Antigen References:	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. Cimmino L, <i>et al.</i> 2008. <i>J. Immunol.</i>