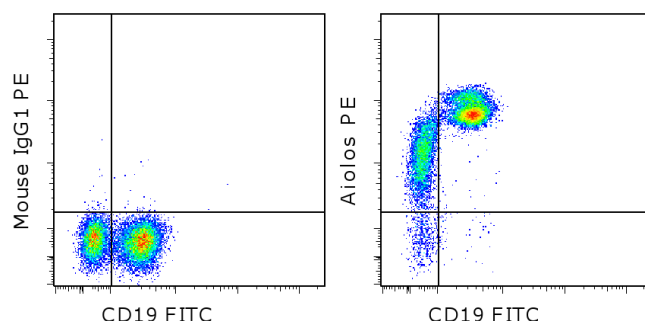


## Anti-Mouse Aiolos PE

**Catalog Number:** 12-5789

**Also known as:** IKZF3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



C57Bl/6 splenocytes were stained with Anti-Mouse CD19 FITC (cat. 11-0193) followed by intracellular staining with 0.125 ug of Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or 0.125 ug of Anti-Mouse Aiolos PE (right) using the Foxp3 Staining Buffer Set (cat. 00-5523) and protocol. Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Mouse Aiolos PE

**Catalog Number:** 12-5789

**Clone:** 8B2

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Mouse IgG1, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

### Description

This 8B2 monoclonal antibody reacts with mouse Aiolos, a 58-kDa member of the Ikaros family of zinc finger transcription factors. Expression of Aiolos is restricted to the lymphoid lineage, with B cells exhibiting the highest levels of expression, followed by NK and T cells. Studies demonstrate that Aiolos forms homodimers or heterodimerizes with Ikaros proteins. Moreover, Aiolos exhibits tyrosine phosphorylation and nuclear localization in response to IL-2 stimulation in T cells. Aiolos plays a role in IL-2-mediated anti-apoptosis by controlling Bcl-2 expression. Finally, Aiolos is involved in B cell development, with upregulation of this transcription factor observed at the pre-BI to pre-BII transition in response to pre-B cell receptor signaling.

### Applications Reported

This 8B2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

### Applications Tested

This 8B2 antibody has been tested by intracellular flow cytometric analysis of mouse splenocytes using the Foxp3 Buffer Set (cat. 00-5523). This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Karnowski A, Cao C, Matthias G, Carotta S, Corcoran LM, Martensson IL, Skok JA, Matthias P. Silencing and nuclear repositioning of the lambda5 gene locus at the pre-B cell stage requires Aiolos and OBF-1. *PLoS One*. 2008;3(10):e3568.

Thompson EC, Cobb BS, Sabbattini P, Meixlsperger S, Parelho V, Liberg D, Taylor B, Dillon N, Georgopoulos K, Jumaa H, Smale ST, Fisher AG, Merkenschlager M. Ikaros DNA-binding proteins as integral components of B cell developmental-stage-specific regulatory circuits. *Immunity*. 2007 Mar;26(3):335-44. (**8B2**, WB)

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Rebollo A, Schmitt C. Ikaros, Aiolos and Helios: transcription regulators and lymphoid malignancies. Immunol Cell Biol. 2003 Jun;81(3):171-5. Review.

Romero F, Martínez-A C, Camonis J, Rebollo A. Aiolos transcription factor controls cell death in T cells by regulating Bcl-2 expression and its cellular localization. EMBO J. 1999 Jun 15;18(12):3419-30.

Morgan B, Sun L, Avitahl N, Andrikopoulos K, Ikeda T, Gonzales E, Wu P, Neben S, Georgopoulos K. Aiolos, a lymphoid restricted transcription factor that interacts with Ikaros to regulate lymphocyte differentiation. EMBO J. 1997 Apr 15;16(8):2004-13.

### Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0193 Anti-Mouse CD19 FITC (eBio1D3 (1D3))

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

14-0161 Anti-Mouse CD16/CD32 Purified (93)

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