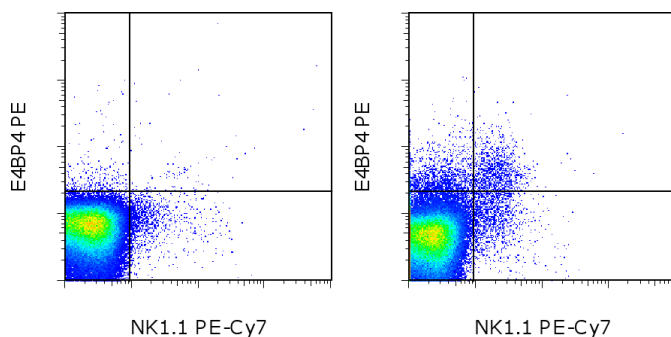


Anti-Mouse E4BP4 (NFIL3) PE

Catalog Number: 12-5927

Also known as: NFIL3A

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



Mouse splenocytes unstimulated (left) or stimulated overnight with Mouse IL-15/IL-15R Complex Recombinant Protein Carrier-Free (cat. 34-8152) (right) were stained with Anti-Mouse NK1.1 PE-Cy7 (cat. 25-5941) and 0.125 μ g of Anti-Mouse E4BP4 (NFIL3) PE. Intracellular staining for E4BP4 was performed 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 E4BP4 (NFIL3) PE

Catalog Number: 12-5927

Clone: S2M-E19

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, 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

Contains sodium azide

Description

This S2M-E19 monoclonal antibody recognizes mouse E4BP4 (NFIL3), a basic leucine zipper transcription factor first identified for its binding to the promoters of the adenovirus E4 protein and human IL-3. E4BP4 is involved in the transcriptional control of the mammalian circadian clock, motor neuron growth and survival, regulation of von Willbrand factor expression, and osteoblast function. In addition, it is also required for the development of NK and NKT cells as well as CD8a+ dendritic cells. Although relatively high levels of mRNA are reported in resting NK and NKT cells, studies at eBioscience have observed expression of E4BP4 protein in lymphocytes only after activation.

Applications Reported

This S2M-E19 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This S2M-E19 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3 Buffer Set (cat. 00-5523) and protocol. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kashiwada M, Pham NL, Pewe LL, Harty JT, Rothman PB. NFIL3/E4BP4 is a key transcription factor for CD8a+ dendritic cell development. *Blood*. 2011 Jun 9;117(23):6193-7.

Gascoyne DM, Long E, Veiga-Fernandes H, de Boer J, Williams O, Seddon B, Coles M, Kioussis D, Brady HJ. The basic leucine zipper transcription factor E4BP4 is essential for natural killer cell development. *Nat Immunol*. 2009 Oct;10(10):1118-24.

Cowell IG. E4BP4/NFIL3, a PAR-related bZIP factor with many roles. *Bioessays*. 2002 Nov;24(11):1023-9.

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Ikushima S, Inukai T, Inaba T, Nimer SD, Cleveland JL, Look AT. Pivotal role for the NFIL3/E4BP4 transcription factor in interleukin 3-mediated survival of pro-B lymphocytes. *Proc Natl Acad Sci U S A*. 1997 Mar 18;94(6):2609-14.

Zhang W, Zhang J, Kornuc M, Kwan K, Frank R, Nimer SD. Molecular cloning and characterization of NF-IL3A, a transcriptional activator of the human interleukin-3 promoter. *Mol Cell Biol*. 1995 Nov;15(11):6055-63.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

25-5941 Anti-Mouse NK1.1 PE-Cy7 (PK136)

34-8152 Mouse IL-15/IL-15R Complex Recombinant Protein Carrier-Free