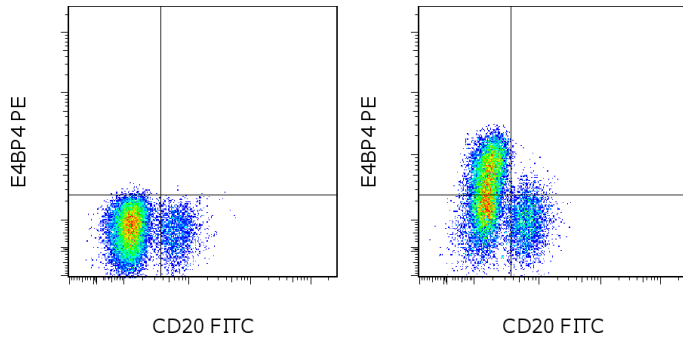


Anti-Human E4BP4 (NFIL3) PE

Catalog Number: 12-9812

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



Normal human peripheral blood cells were unstimulated (left) or stimulated with Anti-Human CD3 Functional Grade Purified (cat. 16-0037) and Anti-Human CD28 Functional Grade Purified (cat. 16-0289) overnight (right) and then fixed and permeabilized with the Fcγ3/Transcription Factor Staining Buffer Set (cat. 00-5523). Cells were intracellularly stained with Anti-Human CD20 FITC (cat. 11-0209) and Anti-Human E4BP4 (NFIL3) PE. Viable cells, as determined by staining with Fixable Viability Dye eFluor[®] 780 (cat. 65-0865), in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human E4BP4 (NFIL3) PE



Catalog Number: 12-9812

Clone: MABA223

Concentration: 5 µL (0.125 µg)/test

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 MABA223 monoclonal antibody recognizes human 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 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 MABA223 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MABA223 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated human peripheral blood cells using the Fcγ3/Transcription Factor Staining Buffer Set (cat. 00-5523). This can be used at 5 µL (0.125 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 10⁵ to 10⁸ cells/test.

References

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

Ikushima S, Inukai T, Inaba T, Nimer SD, Cleveland JL, Look AT. Pivotal role for the NFIL3/E4BP4 transcription

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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

11-0209 Anti-Human CD20 FITC (2H7)

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

16-0037 Anti-Human CD3 Functional Grade Purified (OKT3)

16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)

65-0865 Fixable Viability Dye eFluor® 780

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