

# E4BP4 (NFIL3) Monoclonal Antibody (MABA223), Alexa Fluor™ 647, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 647, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MABA223
Conjugate	Alexa Fluor™ 647
Excitation/Emission Max	650/671 nm
Immunogen	21H2-hNFIL3 (aa 163-462)
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2811849

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

## Product Specific Information

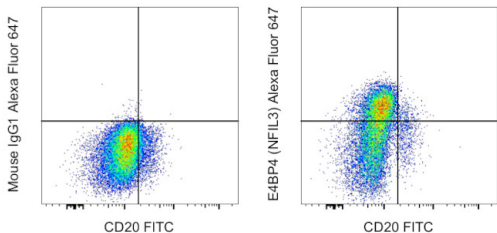
**Description:** This MABA223 monoclonal antibody recognizes human E4BP4 (NFIL3), a basic leucine zipper transcription factor first identified for its binding to the promoters of the adenovirus E4 protein and human IL-3. E4BP4 is involved in the transcriptional control of the mammalian circadian clock, 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 flow cytometric analysis.

**Applications Tested:** This MABA223 antibody has been pre-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins" located at [www.thermofisher.com/flowprotocols](http://www.thermofisher.com/flowprotocols). This may be used at 5 µL (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.

**Excitation:** 633-647 nm; **Emission:** 668 nm; **Laser:** Red Laser

**Product Images For E4BP4 (NFIL3) Monoclonal Antibody (MABA223), Alexa Fluor™ 647, eBioscience™**



### E4BP4 (NFIL3) Antibody (51-9812-42) in Flow

Normal human peripheral blood cells were stimulated overnight with CD3 and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0037-85 and Product # 16-0289-85). Cells were then stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with CD20 Monoclonal Antibody, FITC (Product # 11-0209-42) and Mouse IgG1 kappa Isotype Control, Alexa Fluor 647 (Product # 51-4714-81) (left) or E4BP4 (NFIL3) Monoclonal Antibody, Alexa Fluor 647 (right). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

## 1 Reference

## Flow Cytometry (1)

The Journal of clinical investigation

## E4BP4-mediated inhibition of T follicular helper cell differentiation is compromised in autoimmune diseases.

"Published figure using E4BP4 (NFIL3) monoclonal antibody (Product # 51-9812-42) in Flow Cytometry"

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Year  
2020

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