

Mouse NFIL3/E4BP4 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1218A Catalog Number: MAB8888

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects NFIL3/E4BP4 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1218A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	E. coli-derived recombinant mouse NFIL3/E4BP4 Lys140-Arg462 Accession # 008750
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

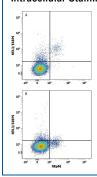
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of NFIL3/E4BP4 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes treated with 100 ng/ml. Recombinant Mouse IL-2 (Catalog # 402-ML) overnight were stained with Rat Anti-Mouse NKp46/NCR1 APC-conjugated Monoclonal Antibody (Catalog # FAB22252A) and either (A) Rabbit Anti-Mouse NFIL3/E4BP4 Monoclonal Antibody (Catalog # MAB8888) or (B) Normal Rabbit IgG Control (Catalog # AB-105-C) followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012).

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

BACKGROUND

NFIL3 (Nuclear Factor, Interleukin 3 Regulated), also called E4BP4 (adenovirus E4 promoter binding protein 4), is an approximately 58 kDa transcription factor of the bZIP (basic leucine zipper) family. It is a transcriptional regulator expressed in T and pro-B lymphocytes and cardiomyocytes, binds IL-3 and promoters as a homodimer, and enhances cell survival. NFIL3 has also been shown to be involved in the development of Innate Lymphoid Cells (ILCs; 1,2). The 462 amino acid (aa) human NFIL3 contains a basic DNA binding domain (aa 73-95), a leucine zipper (aa 96-124), and a transcriptional repression domain (aa 299-363) that is potentially regulated by phosphorylation at Ser301 and Ser353. Within the region used as an immunogen, human NFIL3 shares 83% aa sequence identity with mouse and rat NFIL3.

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