

E4BP4/NFIL3 (D5K8O) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	60	Rabbit IgG	#Q16649	4783

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

E4BP4/NFIL3 (D5K8O) Rabbit mAb recognizes endogenous levels of total E4BP4/NFIL3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro455 of human E4BP4/NFIL3 protein.

Background

E4BP4/NFIL3 is a basic leucine zipper transcriptional regulator that plays a variety of roles in the immune system (1). For example, E4BP4/NFIL3 is required for bone marrow-derived NK cell development (2,3). In addition, it regulates IgE class switching in B cells by controlling IL-4 dependent induction of germ-line ϵ (GLE) transcription (4). In macrophages, E4BP4/NFIL3 is induced following exposure to bacteria and negatively regulates transcription of IL-12 p40. E4BP4/NFIL3 also controls cytokine production by T cells. Th2 cells from E4BP4/NFIL3^{-/-} mice produced elevated levels of IL-5 and IL-13, but reduced levels of IL-4 and IL-10 (5,6). Chronically stimulated Th1 cells, regulatory T cells, and NKT cells from E4BP4/NFIL3^{-/-} mice all produce reduced levels of IL-10 and IL-13 (6). Finally, E4BP4/NFIL3 is also required for the development of conventional CD8 α^+ dendritic cells, as this subset is absent from E4BP4/NFIL3^{-/-} mice (7).

Background References

1. Cowell, I.G. et al. (1992) *Mol Cell Biol* 12, 3070-7.
2. Gascoyne, D.M. et al. (2009) *Nat Immunol* 10, 1118-24.
3. Seillet, C. et al. (2014) *J Immunol* 192, 2667-76.
4. Kashiwada, M. et al. (2010) *Proc Natl Acad Sci U S A* 107, 821-6.
5. Kashiwada, M. et al. (2011) *EMBO J* 30, 2071-82.
6. Motomura, Y. et al. (2011) *Nat Immunol* 12, 450-9.
7. Kashiwada, M. et al. (2011) *Blood* 117, 6193-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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