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E4BP4/NFIL3 (D5K8O) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q16649	Entrez-Gene Id 4783
Product Usage Information	Ap	pplication		Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation			1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
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	sys add (GL neg Th2 ad I mic	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 (GL ϵ) 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 ^(-f-) mice produced elevated levels of IL-5 an IL-13, but reduced levels of IL-4 ad IL-10 (5,6). Chronically stimulated Th1 cells, regulatory T cells, and NKT cells from E4BP4/NFIL3 ^(-f-) 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 ^(-f-) mice (7).				
Background Ref	1. Cowell, I.G. et al. (1992) <i>Mol Cell Biol</i> 12, 3070-7. 2. Gascoyne, D.M. et al. (2009) <i>Nat Immunol</i> 10, 1118-24. 3. Seillet, C. et al. (2014) <i>J Immunol</i> 192, 2667-76. 4. Kashiwada, M. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 821-6. 5. Kashiwada, M. et al. (2011) <i>EMBO J</i> 30, 2071-82. 6. Motomura, Y. et al. (2011) <i>Nat Immunol</i> 12, 450-9. 7. Kashiwada, M. et al. (2011) <i>Blood</i> 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

 $\textbf{WB:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation}$

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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