

BACH2 Antibody



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q9BYV9	Entrez-Gene Id: 60468
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM so 20°C. Do not aliquot t		s), 150 mM NaCl, 100 μg,	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sensitivity		BACH2 Antibody recognizes endogenous levels of total BACH2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala304 of human BACH2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The transcription regulator BTB and CNC homolog 2 (BACH2) is a bZIP domain-containing transcriptional repressor that dimerizes with MafK and binds Maf recognition elements (MAREs) to regulate transcription (1,2). BACH2 is part of a network of transcription factors that controls the transition of activated B cells into either antibody-producing plasma cells or memory B cells (3-5). Plasma cell differentiation requires the transcription factor Blimp1 (6). BACH2 suppresses expression of Blimp1 in activated B cells, which delays plasma cell differentiation and allows time for class switch recombination and somatic hypermutation (3-5). Genome-wide association studies have linked the genetic locus containing BACH2 to several immune-related disorders, including type 1 diabetes, celiac disease, Crohn's disease, and the skin condition known as vitiligo (7-10).				
Background References		 Oyake, T. et al. (1996) Mol Cell Biol 16, 6083-95. Muto, A. et al. (1998) EMBO J 17, 5734-43. Muto, A. et al. (2004) Nature 429, 566-71. Ochiai, K. et al. (2006) J Biol Chem 281, 38226-34. Muto, A. et al. (2010) EMBO J 29, 4048-61. Shaffer, A.L. et al. (2002) Immunity 17, 51-62. Cooper, J.D. et al. (2008) Nat Genet 40, 1399-401. Dubois, P.C. et al. (2010) Nat Genet 42, 295-302. Franke, A. et al. (2010) Nat Genet 44, 676-80. 				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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