e at -20C	BATF (D7C5) Rabbit mAb		Cell Signaling	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit IgG	UniProt ID: #Q16520	Entrez-Gene Id: 10538		
Product Usage Information	We	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100 1:400 - 1:1600			
Storage	Sup	Flow Cytometry (Fixed/Permeabilized) 1:400 - 1:1600 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.						
	For	For a carrier free (BSA and azide free) version of this product see product #27977.						
Specificity / Sensiti	vity BAT	BATF (D7C5) Rabbit mAb detects endogenous levels of total BATF protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human BATF protein.						
Background		Basic leucine zipper transcriptional factor ATF-like (BATF) is a basic leucine zipper (bZIP) transcription factor and is part of the AP-1/ATF family that forms inhibitory dimers with members of the Jun family (1-3). Expression of BATF is largely restricted with highest levels found in mature T cells, and it is induced in B cells following immune responses including viral infection (1,2). BATF expression is also induced by IL-6 via a Stat3-dependent mechanism (4). BATF plays an important role in the differentiation of immune cell lineages (5-7). Studies of BATF-deficient mice have demonstrated a critical role for BATF in the formation of IL-17-expressing Th17 cells, in part, by regulating the expression of IL-17 (5,6). BATF knockouts are resistant to experimental autoimmune encephalomyelitis (EEA), consistent with the role of Th17 cells in this model for autoimmunity (5). Additional studies have found that BATF is important in generating antibody class switching. BATF is required for the generation of follicular helper T cells (Tfh), by regulating BCL6 and c-Maf (6,7). In B cells, BATF controls the expression of activation-induced cytidine deaminase (AID) and regulates class-switched antibody responses (7). Taken together, these studies suggest that BATF is a key regulator of distinct populations of immune cells.						
Background References		 Dorsey, M.J. et al. (1995) Oncogene 11, 2255-65. Hasegawa, H. et al. (1996) Biochem Biophys Res Commun 222, 164-70. Echlin, D.R. et al. (2000) Oncogene 19, 1752-63. Senga, T. et al. (2002) Oncogene 21, 8186-91. Schraml, B.U. et al. (2009) Nature 460, 405-9. Betz, B.C. et al. (2010) J Exp Med 207, 933-42. Ise, W. et al. (2011) Nat Immunol 12, 536-43. 						
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe		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	WB	WB: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity K	X: X:	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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Limited Uses

BATF (D7C5) Rabbit mAb (#8638) Datasheet Without Images Cell Signaling Technology

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