

#27120 Store at +4°C

BATF (D7C5) Rabbit mAb (PE Conjugate)


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Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q16520	Entrez-Gene Id: 10538
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	BATF (D7C5) Rabbit mAb (PE Conjugate) recognizes 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	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated BATF (D7C5) Rabbit mAb #8638.	
Background	<p>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 (EAE), 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 (T_{fh}), 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.</p>	
Background References	<ol style="list-style-type: none"> 1. Dorsey, M.J. et al. (1995) <i>Oncogene</i> 11, 2255-65. 2. Hasegawa, H. et al. (1996) <i>Biochem Biophys Res Commun</i> 222, 164-70. 3. Echlin, D.R. et al. (2000) <i>Oncogene</i> 19, 1752-63. 4. Senga, T. et al. (2002) <i>Oncogene</i> 21, 8186-91. 5. Schraml, B.U. et al. (2009) <i>Nature</i> 460, 405-9. 6. Betz, B.C. et al. (2010) <i>J Exp Med</i> 207, 933-42. 7. Ise, W. et al. (2011) <i>Nat Immunol</i> 12, 536-43. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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