

BATF antibody

Product Information

Catalog No.:	FNab00807
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

AP-1 family transcription factor that controls the differentiation of lineage-specific cells in the immune system: specifically mediates the differentiation of T-helper 17 cells(Th17), follicular T-helper cells(Tfh), CD8(+) dendritic cells and class-switch recombination(CSR) in B-cells. Acts via the formation of a heterodimer with JUNB that recognizes and binds DNA sequence 5'-TGA[CG]TCA-3'. The BATF-JUNB heterodimer also forms a complex with IRF4(or IRF8) in immune cells, leading to recognition of AICE sequence(5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF4(or IRF8) and activation of genes. Controls differentiation of T-helper cells producing interleukin-17(Th17 cells) by binding to Th17-associated gene promoters: regulates expression of the transcription factor RORC itself and RORC target genes such as IL17(IL17A or IL17B). Also involved in differentiation of follicular T-helper cells(Tfh) by directing expression of BCL6 and MAF. In B-cells, involved in class-switch recombination(CSR) by controlling the expression of both AICDA and of germline transcripts of the intervening heavy-chain region and constant heavy-chain region(I(H)-C(H)). Following infection, can participate in CD8(+) dendritic cell differentiation via interaction with IRF4 and IRF8 to mediate cooperative gene activation. Regulates effector CD8(+) T-cell differentiation by regulating expression of SIRT1. Following DNA damage, part of a differentiation checkpoint that limits self-renewal of hematopoietic stem cells(HSCs): up-regulated by STAT3, leading to differentiation of HSCs, thereby restricting self-renewal of HSCs(By similarity).

Immunogen information

Immunogen: basic leucine zipper transcription factor, ATF-like

Synonyms:	Basic leucine zipper transcriptional factor ATF-like B-cell-activating transcription factor (B-ATF) SF-HT-activated gene 2 protein (SFA-2) BATF
Observed MW:	15 kDa
Uniprot ID :	Q16520

Application

Reactivity: Human, Mouse, Rat

Tested Application: ELISA, IF, WB

Recommended dilution: WB: 1:500-1:1000; IF: 1:10-1:100

Image:



293T cells were subjected to SDS PAGE followed by western blot with FNab00807(BATF antibody) at dilution of 1:600