

BATF3 Antibody

Catalog # ASC11841

Product Information

Application	WB, E
Primary Accession	Q9NR55
Other Accession	NP_061134 , 8924246
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	14468
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	BATF3 body can be used for detection of BATF3 by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	55509
Other Names	Basic leucine zipper transcriptional factor ATF-like 3, B-ATF-3, 21 kDa small nuclear factor isolated from T-cells, Jun dimerization protein p21SNFT, BATF3, SNFT
Target/Specificity	BATF3; BATF3 antibody is human, mouse and rat reactive. BATF3 antibody is predicted to have no cross-reactivity to other BATF family members.
Reconstitution & Storage	BATF3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	BATF3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BATF3
Synonyms	SNFT
Function	AP-1 family transcription factor that controls the differentiation of CD8(+) thymic conventional dendritic cells in the immune system. Required for development of CD8-alpha(+) classical dendritic cells (cDCs) and related CD103(+) dendritic cells that cross- present antigens to CD8 T-cells and produce interleukin-12 (IL12) in response to pathogens (By similarity). Acts via the formation of a heterodimer with JUN family proteins that recognizes and binds DNA sequence 5'-TGA[CG]TCA-3' and regulates expression of target genes.

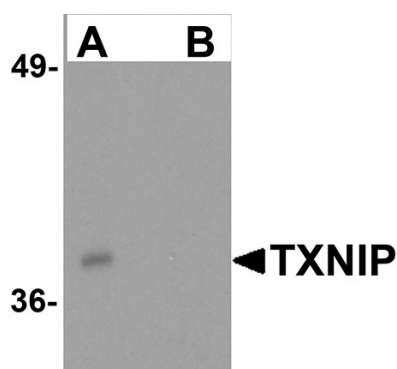
Background

BATF3, also known as SNFT, belongs to the basic leucine zipper transcriptional family and functions as a transcriptional repressor when heterodimerizing with Jun (1) and can repress the transcription of IL-2 and MMP-1 (1,2). BATF3 is required for the development of CD8alpha+ classical dendritic cells (DCs) and the related CD103+ DCs that cross-present antigens to CD8 T cells (3,4).

References

Iacobelli M, Wachsman W, and McGuire KL. Repression of IL-2 promoter activity by the novel basic leucine zipper p21SNFT protein. *J. Immunol.* 2000; 154:860-8.
Bower KE, Fritz JM, and McGuire KL. Transcriptional repression of MMP-1 by p21SNFT and reduced invasiveness of hepatocarcinoma cells. *Oncogene* 2004; 23:8805-14.
Hildner K, Edelson BT, Purtha WE, et al. BATF3 deficiency reveals a critical role for CD8alpha+ dendritic cells in cytotoxic T cell immunity. *Science* 2008; 322:1097-1100.
Edelson BT, Peripheral CD103+ dendritic cells form a unified subset developmentally related to CD8alpha+ conventional dendritic cells. *J. Exp. Med.* 2010; 207:823-36.

Images



Western blot analysis of BATF3 in 293 cell lysate with BATF3 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.