

BATF3 Antibody
Catalog # ASC11841**Specification****BATF3 Antibody - Product Information**

Application	WB
Primary Accession	O9NR55
Other Accession	NP_061134 , 8924246
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 14 kDa

Application Notes	Observed: 17 kDa KDa BATF3 body can be used for detection of BATF3 by Western blot at 1 - 2 µg/ml.
-------------------	---

BATF3 Antibody - Additional InformationGene ID **55509****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.

BATF3 Antibody - 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.

Cellular Location

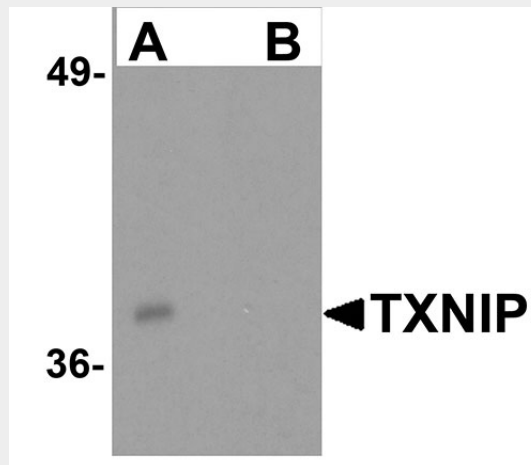
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12087103}

BATF3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BATF3 Antibody - Images



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

BATF3 Antibody - 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 CD8 α ⁺ classical dendritic cells (DCs) and the related CD103⁺ DCs that cross-present antigens to CD8 T cells (3,4).

BATF3 Antibody - 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 CD8 α ⁺ 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 CD8 α ⁺ conventional dendritic cells. *J. Exp. Med.* 2010; 207:823-36.