

**BATF3 Antibody**  
**Catalog # ASC11841****Specification**

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**BATF3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NR55</a>
Other Accession	<a href="#">NP_061134</a> , <a href="#">8924246</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 14 kDa

Application Notes	<b>Observed: 17 kDa KDa</b> <b>BATF3 body can be used for detection of</b> <b>BATF3 by Western blot at 1 - 2 µg/ml.</b>
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**BATF3 Antibody - Additional Information**

Gene 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**

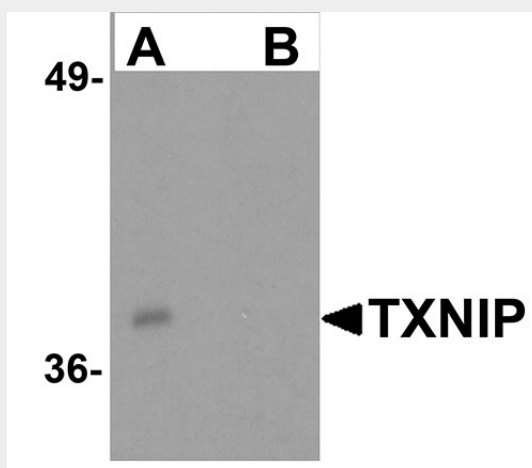
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12087103}

## 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  $\mu$ 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 $\alpha$ + 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 $\alpha$ + 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 $\alpha$ + conventional dendritic cells. *J. Exp. Med.* 2010; 207:823-36.