

Anti-Phospho-NFATC1 (S294) Antibody

Catalog Number: P00340-1

About NFATC1

NFATC1(Nuclear factor of activated T-cells, cytoplasmic 1), also known as NFATC or NFAT2, is a protein that in humans is encoded by the NFATC1 gene. And it is also a component of the nuclear factor of activated T cells DNA-binding transcription complex. The NFATC1 gene is mapped on 18q23. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. NFATC1 was not detected in brain, liver, or kidney. NFATC1 is an inducible nuclear component which functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. The solution structure of the binary complex formed between the core DNA-binding domain of human NFATC1 and the 12-bp oligonucleotide duplex containing the ARRE2 DNA site from the IL2 promoter. Nfatc1 was expressed exclusively in mouse hair follicle stem cells, and using gain- and loss-of-function approaches, and Nfatc1 inhibited stem cell activation.

Overview

Product Name	Anti-Phospho-NFATC1 (S294) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-NFATC1 (S294) Antibody catalog # P00340-1. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O95644

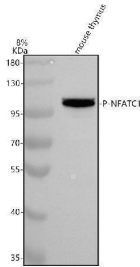
Technical Details

Immunogen	A synthesized peptide derived from human NFAT2 around the phosphorylation site of Ser294.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.

Suggested Dilutions

Western blot, 1:500-2000
Immunohistochemistry, 1:50-200

Anti-Phospho-NFATC1 (S294) Antibody (P00340-1) Images



Western blot analysis of NFATC1 using anti-NFATC1 antibody (P00340-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse thymus tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NFATC1 antigen affinity purified polyclonal antibody (P00340-1) at 1:500 overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NFATC1 at approximately 101 kDa. The expected band size for NFATC1 is at 101 kDa.

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