Datasheet for ABIN967558

anti-NFAT1 antibody (AA 433-567)

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Overview

Quantity:	0.1 mg
Target:	NFAT1
Binding Specificity:	AA 433-567
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human NF-ATc2 aa. 433-567 Peptide
Clone:	4G6-G5
Isotype:	IgG2a kappa
Cross-Reactivity:	Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 3. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	NFAT1
Alternative Name:	NF-ATc2 (NFAT1 Products)
Background:	The NF-AT family of transcription factors are regulators of early immune response genes in T cells following their activation by CD40L, FasL and interleukins including IL-2, -3, -4 and -5. NF-AT proteins function in both signal transduction and transcription control. The DNA binding, active NF-AT complex contains a cytoplasmic, Ca2+/calcineurin dependent, cyclosporin sensitive subunit, designated NF-ATc, which is present in the cytoplasm of resting cells. Upon cell activation, NF-ATc is dephosphorylated and thus activated by calcineurin, resulting in rapid translocation of NF-ATc to the nucleus. The active NF-AT complex also contains a nuclear component, designated NF-ATn. In vitro, NF-AT cooperates with the mitogenic transcription factor AP-1 to induce multiple cytokine genes. NF-ATc is encoded by four genes: NF-ATc1 (originally named NF-ATc), NF-ATc2 (originally named NF-ATp), NF-ATc3 (NF-AT3), and NF-ATc4 (NF-AT4). These proteins are differentially expressed in tissues, suggesting that each may activate distinct sets of genes. NF-ATc2 is constutively expressed in resting immune cells. NF-ATc2 is required for the development of Th2 responses and plays a role in the production of IL-4. Synonyms: NFAT1, NFATP, KIAA0611
Molecular Weight:	97-135 kDa
Pathways:	RTK Signaling, WNT Signaling, Fc-epsilon Receptor Signaling Pathway, VEGF Signaling, BCR Signaling

Application Details

Comment:	Related Products: ABIN968537, ABIN967389, ABIN968123
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

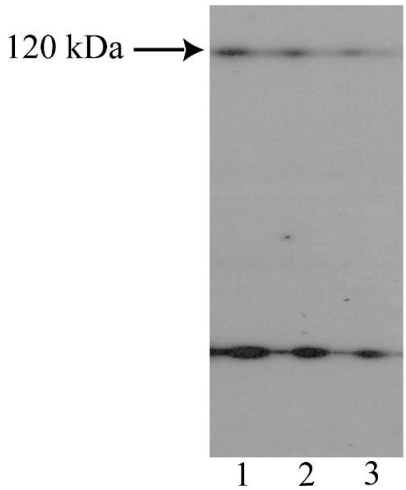
Handling

Storage:	4 °C
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:	Xanthoudakis, Viola, Shaw, Luo, Wallace, Bozza, Luk, Curran, Rao: "An enhanced immune response in mice lacking the transcription factor NFAT1." in: **Science (New York, N.Y.)**, Vol. 272 , Issue 5263, pp. 892-5, (1996) (PubMed). Crabtree: "Contingent genetic regulatory events in T lymphocyte activation." in: **Science (New York, N.Y.)**, Vol. 243, Issue 4889, pp. 355-61, (1989) (PubMed).

Images



Western Blotting

Image 1.

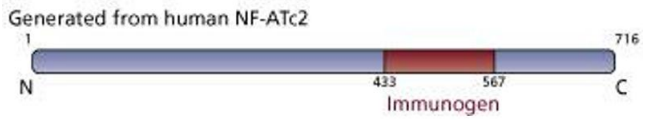


Image 2.