

DATASHEET

NFAT1 Rabbit Polyclonal Antibody

CAT. NO. APA14261

KEY FEATURES

Target	NFAT1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

BACKGROUND

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF or GM-CSF . Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway . Is involved in the negative regulation of chondrogenesis . Recruited by AKAP5 to ORAI1 pore-forming subunit of CRAC channels in Ca(2+) signaling microdomains where store-operated Ca(2+) influx is coupled to calmodulin and calcineurin signaling and activation of NFAT-dependent transcriptional responses.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to NFAT1
Specificity	Recognizes endogenous levels of NFAT1 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide of human NFAT1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 76; Observed: 140 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NFAT1; NFATP; Nuclear factor of activated T-cells, cytoplasmic 2; NF-ATc2; NFATc2; NFAT pre-existing subunit; NF-ATp; T-cell transcription factor NFAT1
Gene Symbol	NFATC2
Entrez Gene	4773(Human); 18019(Mouse)
SwissProt	Q13469(Human); Q60591(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

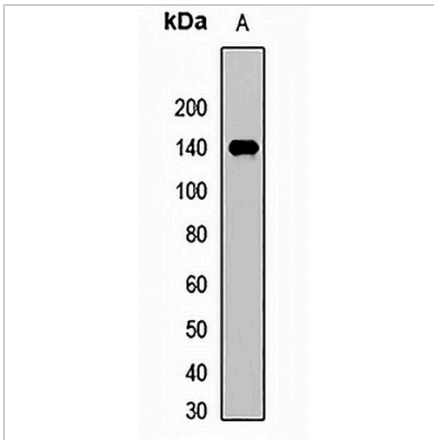
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

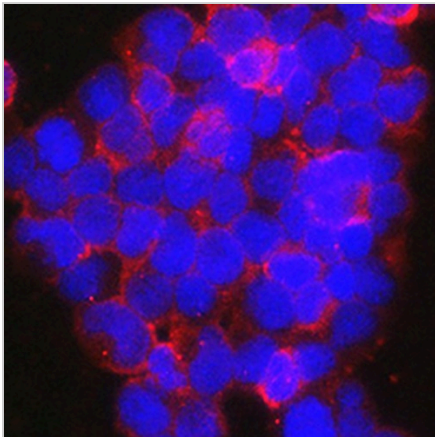
NFAT1 Rabbit Polyclonal Antibody

CAT. NO. APA14261

DATA



Western blot analysis of NFAT1 expression in mouse heart (A) whole cell lysates. (Predicted band size: 76; 97; 98; 99; 100 kD; Observed band size: 140 kD)



Immunofluorescent analysis of NFAT1 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.