

Anti-NFAT1 Antibody
Rabbit polyclonal antibody to NFAT1
Catalog # AP61458

Specification

Anti-NFAT1 Antibody - Product Information

Application	WB
Primary Accession	O13469
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100146

Anti-NFAT1 Antibody - Additional Information

Gene ID 4773

Other 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

Target/Specificity

Recognizes endogenous levels of NFAT1 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-NFAT1 Antibody - Protein Information

Name NFATC2

Synonyms NFAT1, NFATP

Function

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-alpha or GM-CSF (PubMed: [15790681](http://www.uniprot.org/citations/15790681)). Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway (PubMed: [21871017](http://www.uniprot.org/citations/21871017)). Is involved in the negative regulation of chondrogenesis (PubMed: [35789258](http://www.uniprot.org/citations/35789258)). 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.

Cellular Location

Cytoplasm. Nucleus. Note=Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription

Tissue Location

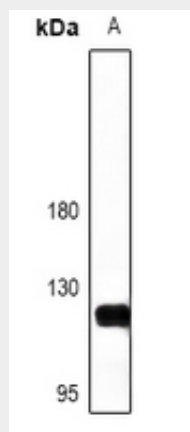
Expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas. Isoform 1 is highly expressed in the small intestine, heart, testis, prostate, thymus, placenta and thyroid Isoform 3 is highly expressed in stomach, uterus, placenta, trachea and thyroid.

Anti-NFAT1 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](#)

Anti-NFAT1 Antibody - Images



Western blot analysis of NFAT1 expression in C6 (A) whole cell lysates.

Anti-NFAT1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NFAT1. The exact sequence is proprietary.