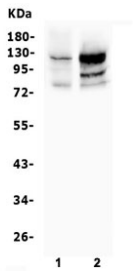
# NFAT2 Antibody (RQ5535)

| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5535 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | O95644 |
| **Applications** | Western blot: 0.5-1ug/ml<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This NFAT2 antibody is available for research use only. |




Western blot testing of human 1) U-2 OS and 2) K562 cell lysate with NFAT2 antibody. Predicted molecular weight: ~77 kDa (isoform A), ~88 kDa (isoform B), ~101 kDa (isoform C).

## Description

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.

## Application Notes

Optimal dilution of the NFAT2 antibody should be determined by the researcher.

## Immunogen

A human recombinant protein (amino acids F374-E710) was used as the immunogen for the NFAT2 antibody.

## Storage

After reconstitution, the NFAT2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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