

# Human Nuclear factor of activated T-cells, cytoplasmic 1 (NFATC1) ELISA Kit

Catalog No: #EK11494

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Package Size: #EK11494-1 48T #EK11494-2 96T

## Description

Product Name	Human Nuclear factor of activated T-cells, cytoplasmic 1 (NFATC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC138448; NF-ATC; NFAT2; NFATc; NFAT transcription complex cytosolic component nuclear factor of activated T-cells; cytosolic component 1
Accession No.	O95644
Uniprot	O95644
GeneID	4772;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.115 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate NFATC1 in samples. An antibody specific for NFATC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyNFATC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NFATC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of NFATC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**NFATC1 is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response.

The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Five transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes.

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Note: This product is for in vitro research use only