

## Recombinant Human NFATC1 293 Cell Lysate

Cat. No. NFATC1-3858HCL    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description         | Antigen standard for nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATC1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                           |
| Components          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| Size                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Instruction | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

NFATC1 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 [ Homo sapiens ]

**Official Symbol**

NFATC1

**Synonyms**

NFATC1; nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1; nuclear factor of activated T-cells, cytoplasmic 1; NF ATC; NFAT2; NFATc; NF-ATc1; NFAT transcription complex cytosolic component; NF-ATC; MGC138448;

**Gene ID**

4772

**mRNA Refseq**

NM\_006162

**Protein Refseq**

NP\_006153

**MIM**

600489

**UniProt ID**

O95644

**Chromosome Location**

18q23

**Pathway**

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway,

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conserved biosystem; BCR signaling pathway, organism-specific biosystem;  
Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem;

**Function**

DNA binding; FK506 binding; RNA polymerase II distal enhancer sequence-specific DNA binding; RNA polymerase II transcription factor binding; mitogen-activated protein kinase p38 binding; protein binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription regulatory region DNA binding;

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