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## Datasheet for ABIN7319936 NFATC4 Protein (His tag)

### Overview

Quantity:	100 µg
Target:	NFATC4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NFATC4 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human NFATC4 protein (His Tag)
Sequence:	401S-683F
Characteristics:	A DNA sequence encoding the Human NFATC4 (Q14934-1) (401S-683F) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Immunogen(E-AB-40328)

### Target Details

Target:	NFATC4
Alternative Name:	NFATC4 ( <a href="#">NFATC4 Products</a> )
Background:	Background: Ca <sup>2+</sup> -regulated transcription factor that is involved in several processes, including

## Target Details

the development and function of the immune, cardiovascular, musculoskeletal, and nervous systems. Involved in T-cell activation, stimulating the transcription of cytokine genes, including that of IL2 and IL4. Along with NFATC3, involved in embryonic heart development. Involved in mitochondrial energy metabolism required for cardiac morphogenesis and function. Transactivates many genes involved in the cardiovascular system, including AGTR2, NPPB/BNP (in synergy with GATA4), NPPA/ANP/ANF and MYH7/beta-MHC. Involved in the regulation of adult hippocampal neurogenesis. Involved in BDNF-driven pro-survival signaling in hippocampal adult-born neurons. Involved in the formation of long-term spatial memory and long-term potentiation (By similarity). In cochlear nucleus neurons, may play a role in deafferentation-induced apoptosis during the developmental critical period, when auditory neurons depend on afferent input for survival. Binds to and activates the BACE1/Beta-secretase 1 promoter, hence may regulate the proteolytic processing of the amyloid precursor protein (APP) . Plays a role in adipocyte differentiation. May be involved in myoblast differentiation into myotubes. Binds the consensus DNA sequence 5'-GGAAAAT-3' (Probable). In the presence of CREBBP, activates TNF transcription. Binds to PPARG gene promoter and regulates its activity. Binds to PPARG and REG3G gene promoters.

Synonym: cytoplasmic 4, NF ATc4, NF-AT3, NF-ATc4, NFAC4\_HUMAN, NFAT3, NFATc4, Nuclear factor of activated T cells cytoplasmic 4, Nuclear factor of activated T cells cytoplasmic calcineurin dependent 4, Nuclear factor of activated T-cells, T cell transcription factor NFAT3, T-cell transcription factor NFAT3

Molecular Weight:	31.5kDa
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Pathways:	<a href="#">RTK Signaling</a> , <a href="#">WNT Signaling</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as sterile Tris,EDTA,PH 8.0.
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Storage:	-20 °C,-80 °C
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Storage Comment:	Samples are stable for up to twelve months from date of receipt at -70°C.Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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