Datasheet for ABIN6388198

NFAT1 Protein (AA 396-678) (His tag)

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Overview

Quantity:	100 µg
Target:	NFAT1
Protein Characteristics:	AA 396-678
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NFAT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	PLEWPLSSQS GSYELRIEVQ PKPHHRAHYE TEGSRGAVKA PTGGHPVVQL HGYMENKPLG LQIFIGTADE RILKPHAFYQ VHRITGKTVT TTSYEKIVGN TKVLEIPLEP KNNMRATIDC AGILKLRNAD IELRKGETDI GRKNTRVRLV FRVHIPESSG RIVSLQTASN PIECSQRSAH ELPMVERQDT DSCLVYGGQQ MILTGQNFTS ESKVVFTEKT TDGQQIWEME ATVDKDKSQP NMLFVEIPEY RNKHIRTPVK VNFYVINGKR KRSQPQHFTY HPVHHHHHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1ug of protein (determined by LAL method)

Target Details

Target:	NFAT1
Alternative Name:	NFATC2 (NFAT1 Products)

Target Details

Background:	NFATC2, also known as nuclear factor of activated T-cells cytoplasmic 2 isoform C, is a member of the nuclear factor of activated T cells family. This protein plays a vital role in the course of T helper cell activation, differentiation, and effector function. Although KO of an individual NFAT isoform in T cells leads to rather mild effects, T cells deficient for NFATC1 and 2 completely fail to produce T helper cell effector cytokines, such as the interleukins IL-2 and IL-4 or interferon gamma. Also, it is highly phosphorylated and retained in the cytoplasm. Following T cell receptor (TCR) stimulation, dephosphorylation by calcium-activated calcineurin induces a conformational change of NFATC2 that exposes one or more nuclear localization sequences. Recombinant human NFATC2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	33.1kDa (290aa) 28-40kDa (SDS-PAGE under reducing conditions.)
NCBI Accession:	NP_775114
UniProt:	Q13469
Pathways:	RTK Signaling, WNT Signaling, Fc-epsilon Receptor Signaling Pathway, VEGF Signaling, BCR Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 40 % glycerol, 1 mM DTT.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.