

Datasheet for ABIN7554736

NFAT5 Protein (AA 1-1531) (His tag)



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Overview

Quantity:	1 mg
Target:	NFAT5
Protein Characteristics:	AA 1-1531
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NFAT5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat NFAT5 Protein expressed in mammalian cells.
Sequence:	MPSPDFISLLS ADLDLESPKS LYSRESVYDL LPKELQLPPS RETSVASMSQ TSGGEAGSPP PAVVAADASS APSSSSMGGG CSSFTTSSSP TIYSTSVTDS KAMQVESCSS AVGVSNRGVS EKQLTSNTVQ QHPSTPKRHT VLYISPPPED LLDNSRMSCQ DEGCGLSESQ SCSMWMEDSP SNFSNMSTSS YNDNTEVPRK SRKRNPQKRP GVKRRDCEES NMDIFDADSA KAPHYVLSQL TTDNKGNSKA GNGTLENQKG TGVKKSPMLC GQYPVKSEK ELKIVVQPET QHRARYLTEG SRGSVKDRDQ QGFPTVKLEG HNEPVVLQVF VGNDSGRVKP HGFYQACRVT GRNTTPCKEV DIEGTTVIEV GLDPSNNMTL AVDCVGILKL RNADVEARIG IAGSKKKSTR ARLVFRVNM RKDGSTLTQ TPSSPILCTQ PAGVPEILKK SLHSCSVKGE EEVFLIGKNF LKGTKVIFQE NVSDENSWKS EAEIDMELFH QNHLIVKVPP YHDQHITLPV SVGIYVVTNA GRSHDVQPFT YTPDPAAGA LNVNVKKEIS SPARPCSFEE AMKAMKTTGC NLDKVNIIPN ALMTPLIPSS MIKSEDTVPM EVTAEKRSST IFKTTKSVGS TQQTLENISN IAGNGSFSSP SSSHLPSENE

KQQQIQPKAY NPETLTTIQT QDISQPGTFP AVSASSQLPN SDALLQQATQ FQTRETQSRE
ILQSDGTVVN LSQLTEASQQ QQQSPLQEQA QTLQQQISSN IFSPNSVSQ LQNTIQQQLQA
GSFTGSTASG SSGSVDLVQQ VLEAQQQLSS VLFSAPDGNE NVQEQLSADI FQQVSQIQSG
VSPGMFSSTE PTVHTRPDNL LPGRAESVHP QSENTLSNQQ QQQQQQQQVM ESSAAMVMEM
QQSICQAAAQ IQSELPSTA SANGNLQQSP VYQQTSHMMS ALSTNEDMQM QCELFSSPPA
VSGNETSTTT TQQVATPGTT MFQTSSSGDG EETGTQAKQI QNSVFQTMVQ MQHSGDNQPQ
VNLFSSTKSM MSVQNSGTQQ QGNGLFQQGN EMMSLQSGNF LQSSHSQAAQ LFHPQNPIAD
AQNLSQETQG SLFHSPNPV HSQTSTTSSE QMQPPMFHSQ STIAVLQGSS VPQDQQSTNI
FLSQSPMNNL QTNTVAQEAFAAPNSISPL QSTSNSEQQA AFQQQAPISH IQTPMLSQEQ
AQPPQQGLFQ PQVALGSLPP NPMPQSQQGT MFQSQHSIVA MQSNSPSQEQ QQQQQQQQQQ
QQQQQQSILF SNQNTMATMA SPKQPPPNMI FNPQNPMAN QEQQNQSIFH QQSNMAPMNQ
EQQPMQFQSQ STVSSLQNPQ PTQSESSQTP LFHSSPQIQL VQGSPSSQEQ QVTFLFLPAS
MSALQTSINQ QDMQQSPLYS PQNNMPGIQG ATSSPQPQAT LFHNTAGGTM NQLQNSPGSS
QQTSGMFLFG IQNNCSQLLT SGPATLPDQL MAISQPGQPQ NEGQPPVTTL LSQQMPENS
LASSINTNQN IEKIDLLVSL QNQGNNLTGS F

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	NFAT5
Alternative Name:	NFAT5 (NFAT5 Products)
Background:	Nuclear factor of activated T-cells 5 (NF-AT5) (T-cell transcription factor NFAT5) (Tonicity-responsive enhancer-binding protein) (TonE-binding protein) (TonEBP),FUNCTION: Transcription factor involved, among others, in the transcriptional regulation of osmoprotective and inflammatory genes. Binds the DNA consensus sequence 5'-[ACT][AG]TGGAAA[CAT]A[TA][ATC][CA][ATG][GT][GAC][CG][CT]-3' (PubMed:10377394). Mediates the transcriptional response to hypertonicity (PubMed:10051678). Positively regulates the transcription of LCN2 and S100A4 genes, optimal transactivation of these genes requires the presence of DDX5/DDX17 (PubMed:22266867). Also involved in the DNA damage response by preventing formation of R-loops, R-loops are composed of a DNA:RNA hybrid and the associated non-template single-stranded DNA (PubMed:34049076). {ECO:0000269 PubMed:10051678, ECO:0000269 PubMed:10377394, ECO:0000269 PubMed:22266867, ECO:0000269 PubMed:34049076}.
Molecular Weight:	165.8 kDa
UniProt:	O94916
Pathways:	RTK Signaling , WNT Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months