

Datasheet for ABIN7565242 FOXO3 Protein (AA 1-672) (His tag)



Overview

Quantity:	1 mg
Target:	F0X03
Protein Characteristics:	AA 1-672
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXO3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Foxo3 Protein expressed in mammalien cells.
Sequence:	MAEAPASPVP LSPLEVELDP EFEPQSRPRS CTWPLQRPEL QASPAKPSGE TAADSMIPEE
	DDDEDDEDGG GRASSAMVIG GGVSSTLGSG LLLEDSAMLL APGGQDLGSG PASAAGALSG
	GTPTQLQPQQ PLPQPQPGAA GGSGQPRKCS SRRNAWGNLS YADLITRAIE SSPDKRLTLS
	QIYEWMVRCV PYFKDKGDSN SSAGWKNSIR HNLSLHSRFM RVQNEGTGKS SWWIINPDGG
	KSGKAPRRRA VSMDNSNKYT KSRGRAAKKK AALQAAPESA DDSPSQLSKW PGSPTSRSSD
	ELDAWTDFRS RTNSNASTVS GRLSPILAST ELDDVQDDDG PLSPMLYSSS ASLSPSVSKP
	CTVELPRLTD MAGTMNLNDG LAENLMDDLL DNIALPPSQP SPPGGLMQRG SSFPYTAKSS
	GLGSPTGSFN STVFGPSSLN SLRQSPMQTI QENRPATFSS VSHYGNQTLQ DLLASDSLSH
	SDVMMTQSDP LMSQASTAVS AQNARRNVML RNDPMMSFAA QPTQGSLVNQ NLLHHQHQTQ
	GALGGSRALS NSVSNMGLSD SSSLGSAKHQ QQSPASQSMQ TLSDSLSGSS LYSASANLPV
	MGHDKFPSDL DLDMFNGSLE CDMESIIRSE LMDADGLDFN FDSLISTQNV VGLNVGNFTG

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	AKQASSQSWV PG 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 mammalien 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:	F0X03
Alternative Name:	Foxo3 (FOXO3 Products)
Background:	Forkhead box protein O3,FUNCTION: Transcriptional activator that recognizes and binds to the
	DNA sequence 5'-[AG]TAAA[TC]A-3' and regulates different processes, such as apoptosis and
	autophagy (PubMed:18054316, PubMed:18054315, PubMed:23805378). Acts as a positive
	regulator of autophagy in skeletal muscle: in starved cells, enters the nucleus following
	dephosphorylation and binds the promoters of autophagy genes, such as GABARAP1L,
	MAP1LC3B and ATG12, thereby activating their expression, resulting in proteolysis of skeletal
	muscle proteins (PubMed:18054316, PubMed:18054315, PubMed:25402684). Triggers
	apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress
	(By similarity). Participates in post-transcriptional regulation of MYC: following phosphorylation
	by MAPKAPK5, promotes induction of miR-34b and miR-34c expression, 2 post-transcriptional

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Format:	Liquid
Handling	
Restrictions:	For Research Use only
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.
Application Details	
Pathways:	Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis
UniProt:	Q9WVH4
Molecular Weight:	71.1 kDa
	ECO:0000269 PubMed:32103177}.
	ECO:0000269 PubMed:23805378, ECO:0000269 PubMed:25402684,
	of FOXP3 (By similarity). {ECO:0000250 UniProtKB:043524, ECO:0000269 PubMed:18054315, ECO:0000269 PubMed:18054316, ECO:0000269 PubMed:23283301,
	Also acts as a key regulator of regulatory T-cells (Treg) differentiation by activating expression
	induces chondrogenic commitment and suppresses fatty acid oxidation (PubMed:32103177).
	lipids levels are low, translocates to the nucleus and promotes expression of SOX9, which
	chondrogenic commitment of skeletal progenitor cells in response to lipid availability: when
	promotes mtDNA transcription (PubMed:23283301). Also acts as a key regulator of
	similarity). In response to metabolic stress, translocates into the mitochondria where it
	regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation (By

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

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