

Datasheet for ABIN7553959
FOXO4 Protein (AA 1-505) (His tag)



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Overview

Quantity:	1 mg
Target:	FOXO4
Protein Characteristics:	AA 1-505
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXO4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat FOXO4 Protein expressed in mammalian cells.
Sequence:	MDPGNENSAT EAAAIIDLDP DFEPQSRPRS CTWPLPRPEI ANQPSEPPEV EPDLGKQVHT EGRSEPILLP SRLPEPAGGP QPGILGAVTG PRKGGSRRNA WGNQSYAELI SQAIESAPEK RLTLAQIYEW MVRTVPYFKD KGDSNSSAGW KNSIRHNLSL HSKFIKVHNE ATGKSSWWML NPEGGKSGKA PRRRAASMDS SSKLLRGRSK APKKKPSVLP APPEGATPTS PVGHFAKWGS SPCSRNREEA DMWTTFRPRS SSNASSVSTR LSPLRPESEV LAEEIPASVS SYAGGVPPTL NEGLELLDGL NLTSSHLLS RSLSGFSLQ HPGVTGPLHT YSSSLFSPA EGPLSAGEGCF SSSQALEALL TSDTPPPPAD VLMTQVDPI L SQAPTL LLLG GLPSSSKLAT GVGLCPKPLE APGPSSLVPT LSMIAPPV M ASAPIPKALG TPVLT PPT EA ASQDRMPQDL DLDMYMENLE CDMDNIISDL MDEGEGLDFN FEPDP 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.

Product Details

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:

FOXO4

Alternative Name:

FOXO4 ([FOXO4 Products](#))

Background:

Forkhead box protein O4 (Fork head domain transcription factor AFX1),FUNCTION:

Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. Involved in increased proteasome activity in embryonic stem cells (ESCs) by activating expression of PSMD11 in ESCs, leading to enhanced assembly of the 26S proteasome, followed by higher proteasome activity.

{ECO:0000269|PubMed:10217147, ECO:0000269|PubMed:10783894, ECO:0000269|PubMed:12761217, ECO:0000269|PubMed:15126506, ECO:0000269|PubMed:16054032, ECO:0000269|PubMed:16964248, ECO:0000269|PubMed:20874444, ECO:0000269|PubMed:22972301}.

Molecular Weight:

53.7 kDa

UniProt:

[P98177](#)

Target Details

Pathways: [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Muscle Cell Differentiation](#)

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