

Datasheet for ABIN7563179
FOXA1 Protein (AA 1-468) (His tag)



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Overview

Quantity:	1 mg
Target:	FOXA1
Protein Characteristics:	AA 1-468
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Foxa1 Protein expressed in mammalien cells.
Sequence:	<p>MLGTVKMEGH ESNDWNSYYA DTQEAYSSVP VSNMNSGLGS MNSMNTYMTM NTMTTSGNMT PASFNMSYAN TGLGAGLSPG AVAGMPGASA GAMNSMTAAG VTAMGTALSP GGMGSMGAQP ATSMNGLGPY AAAMNPCMSP MAYAPSNLGR SRAGGGGDAK TFKRSYPHAK PPYSYISLIT MAIQQAPSKM LTLSEIQWI MDLFPYYRQN QQRWQNSIRH SLSFNDCFVK VARSPDKPGK GSYWTLHPDS GNMFENG CYL RRQKRFKCEK QPGAGGGSGG GGSKGGPESR KDPSGPGNPS AESPLHRGVH GKASQLEGAP APGPAASPQT LDHSGATATG GASELKSPAS SSAPPISGP GALASVPPSH PAHGLAPHES QLHLKGDPHY SFNHPFSINN LMSSEQQHK LDFKAYEQAL QYSPYGATLP ASLPLGSASV ATRSPIEPSA LEPAYYQGVY SRPVLNTS Sequence without tag.</p> <p>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.</p>

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:

FOXA1

Alternative Name:

Foxa1 ([FOXA1 Products](#))

Background:

Hepatocyte nuclear factor 3-alpha (HNF-3-alpha) (HNF-3A) (Forkhead box protein A1),FUNCTION: Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence 5'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3' (By similarity). Proposed to play a role in translating the epigenetic signatures into cell type-specific enhancer-driven transcriptional programs. Involved in the development of multiple endoderm-derived organ systems such as the liver, pancreas, lungs and prostate, FOXA1 and FOXA2 seem to have at least in part redundant roles. Plays a role in prostate morphogenesis and epithelial cell differentiation. FOXA1 and FOXA2 are essential for hepatic specification. FOXA1 and FOXA2 are required for morphogenesis and cell differentiation during formation of the lung. FOXA1 and FOXA2 are involved in bile duct

Target Details

formation, they positively regulate the binding of glucocorticoid receptor/NR3C1 to the IL6 promoter. FOXA1 and FOXA2 regulate multiple phases of midbrain dopaminergic neuron development, they regulate expression of NEUROG2 at the beginning of mDA neurogenesis and of NR4A2 and EN1 in immature mDA neurons. Modulates the transcriptional activity of nuclear hormone receptors. Is involved in ESR1-mediated transcription. Inhibits NKX2-1-mediated transcription from the SFTPC promoter in lung epithel independently from DNA-binding. Involved in regulation of apoptosis. Involved in cell cycle regulation. Originally described as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis, activates the GCG promoter. {ECO:0000250, ECO:0000269|PubMed:10049364, ECO:0000269|PubMed:11864602, ECO:0000269|PubMed:15668254, ECO:0000269|PubMed:15748903, ECO:0000269|PubMed:15959514, ECO:0000269|PubMed:15987773, ECO:0000269|PubMed:17596284, ECO:0000269|PubMed:19141476, ECO:0000269|PubMed:19436110}.

Molecular Weight: 48.9 kDa

UniProt: [P35582](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Carbohydrate Homeostasis](#)

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.

Handling

Expiry Date: 12 months