

Datasheet for ABIN7563354
NKX2-1 Protein (AA 1-372) (His tag)



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Overview

Quantity:	1 mg
Target:	NKX2-1
Protein Characteristics:	AA 1-372
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NKX2-1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nkx2-1 Protein expressed in mammalian cells.
Sequence:	<p>MSMSPKHTTP FSVSDILSPL EESYKKBVGM GGLGAPLAA YRQGQAAPPA AAMQQHAVGH HGAVTAAYHM TAAGVPQLSH SAVGGYCNGN LGNMSELPPY QDTMRNSASG PGWYGANPDP RFPAISRFMG PASGMNMSGM GGLGSLGDVS KNMAPLPSAP RRRRVLFSQ AQVYELERRF KQKYLSAPE REHLASMIHL TPTQVKIWFQ NHRYKMKRQA KDKAAQQQLQ QDSGGGGGGG GGAGCPQQQ AQQQSPRRVA VPVLVKDGKP CQAGAPAPGA ASLQSHAQQQ AQQAQAAQA AAAAISVGS GAGLGAHPGH QPGSAGQSPD LAHHAASPAG LQGQVSSL SH LNSSGSDYGA MSCSTLLYGR TW</p> <p>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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	NKX2-1
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Alternative Name:	Nkx2-1 (NKX2-1 Products)
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Background:	Homeobox protein Nkx-2.1 (Thyroid nuclear factor 1) (Thyroid transcription factor 1) (TTF-1) (Thyroid-specific enhancer-binding protein) (T/EBP),FUNCTION: Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis. Forms a regulatory loop with GRHL2 that coordinates lung epithelial cell morphogenesis and differentiation (PubMed:22955271). Activates the transcription of GNRHR and plays a role in enhancing the circadian oscillation of its gene expression. Represses the transcription of the circadian transcriptional repressor NR1D1 (PubMed:22356123). {ECO:0000250 UniProtKB:P23441, ECO:0000269 PubMed:22356123, ECO:0000269 PubMed:22955271}.
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Molecular Weight:	38.6 kDa
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UniProt:	P50220
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Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Systemic Arterial
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Target Details

Blood Pressure by Hormones, Cellular Glucan Metabolic Process, Feeding Behaviour

Application Details

Application Notes: We expect the protein to work for functional studies. 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