

Datasheet for ABIN7563247 NK2 Homeobox 5 Protein (NKX2-5) (AA 1-318) (His tag)



Overview Quantity: 1 mg NK2 Homeobox 5 (NKX2-5) Target: Protein Characteristics: AA 1-318 Mouse Origin: HEK-293 Cells Source: Protein Type: Recombinant Purification tag / Conjugate: This NK2 Homeobox 5 protein is labelled with His tag. Product Details Custom-made recombinant Nkx2-5 Protein expressed in mammalian cells. Purpose:

Sequence:	MFPSPALTPT PFSVKDILNL EQQQRSLASG DLSARLEATL APASCMLAAF KPEAYSGPEA
	AASGLAELRA EMGPAPSPPK CSPAFPAAPT FYPGAYGDPD PAKDPRADKK ELCALQKAVE
	LDKAETDGAE RPRARRRRKP RVLFSQAQVY ELERRFKQQR YLSAPERDQL ASVLKLTSTQ
	VKIWFQNRRY KCKRQRQDQT LELLGPPPPP ARRIAVPVLV RDGKPCLGDP AAYAPAYGVG
	LNAYGYNAYP YPSYGGAACS PGYSCAAYPA APPAAQPPAA SANSNFVNFG VGDLNTVQSP
	GMPQGNSGVS TLHGIRAW Sequence without tag. The proposed Purification-Tag is based on
	experiences with the expression system, a different complexity of the protein could make
	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.
Specificity:	
Specificity:	another tag necessary. In case you have a special request, please contact us.

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	 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)
Grade:	custom-made

Target Details

Target:	NK2 Homeobox 5 (NKX2-5)
Alternative Name:	Nkx2-5 (NKX2-5 Products)
Background:	Homeobox protein Nkx-2.5 (Cardiac-specific homeobox) (Homeobox protein CSX) (Homeobox
	protein NK-2 homolog E),FUNCTION: Transcription factor required for the development of the
	heart and the spleen (PubMed:9584153, PubMed:16556915, PubMed:19483677,
	PubMed:22560297). During heart development, acts as a transcriptional activator of NPPA/ANF
	in cooperation with GATA4 (PubMed:9584153). May cooperate with TBX2 to negatively
	modulate expression of NPPA/ANF in the atrioventricular canal (PubMed:12023302). Binds to
	the core DNA motif of NPPA promoter (PubMed:19483677). Together with PBX1, required for
	spleen development through a mechanism that involves CDKN2B repression
	(PubMed:22560297). Positively regulates transcription of genes such as COL3A1 and MMP2,
	resulting in increased pulmonary endothelial fibrosis in response to hypoxia (By similarity).
	{ECO:0000250 UniProtKB:P52952, ECO:0000269 PubMed:12023302,
	ECO:0000269 PubMed:16556915, ECO:0000269 PubMed:19483677,
	ECO:0000269 PubMed:22560297, ECO:0000269 PubMed:9584153}.
Molecular Weight:	34.2 kDa

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Target Details	
UniProt:	P42582
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
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