

Datasheet for ABIN7546297
SOX5 Protein (AA 1-763) (His tag)



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Overview

Quantity:	1 mg
Target:	SOX5
Protein Characteristics:	AA 1-763
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOX5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SOX5 Protein expressed in mammalian cells.
Sequence:	MLTDPDLPQE FERMSSKRPA SPYGEADGEV AMVTSRQKVE EEESDGLPAF HLPLHVSFPN KPHSEEFQPV SLLTQETCGH RTPTSQHNTM EVDGNKVMSS FAPHNSSTSP QKAEEGGRQS GESLSSTALG TPERRKGS LA DVVDTLKQRK MEELIKNEPE ETPSIEKLLS KDWKDKLLAM GSGNFGEIKG TPESLAEKER QLMGMINQLT SLREQLLAAH DEQKKLAASQ IEKQRQQMEL AKQQQEIQAR QQQQLLQQQH KINLLQQQIQ VQGQLPPLMI PVFPPDQRTL AAAAQQGFLL PPGFSYKAGC SDYPVQLIP TTMAAAAAAT PGLGPLQLQQ LYAAQLAAMQ VSPGGKLPGI PQGNLGA AVS PTSIHTDKST NSPPPKSKDE VAQPLNLSAK PKTSDGKSPT SPTSPHMPAL RINSAGAGPLK ASVPAALASP SARVSTIGYL NDHDAVT KAI QEARQMKEQL RREQQVLDGK VAVVNSLGLN NCRTEKEKTT LESLTQQLAV KQNEEGKFSH AMMDFNLSGD SDGSAGVSES RIYRESRGRG SNEPHIKRPM NAFMVWAKDE RRKILQAFPD MHNSNISKIL GSRWKAMTNL EKQPYEEQA RLSKQHLEKY PDYKYKPRPK RTCLVDGKKL RIG EYKAIMR NRRQEMRQYF

Product Details

NVGQQAQIPI ATAGVVYPGA IAMAGMPSPH LPSEHSSVSS SPEPGMPVIQ STYGVKGEEP
HIKEEIQ AED INGEIYDEYD EEEDDPD VDY GSDSENHIAG QAN **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 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:

SOX5

Alternative Name:

SOX5 (SOX5 Products)

Background:

Transcription factor SOX-5,FUNCTION: Transcription factor involved in chondrocytes differentiation and cartilage formation. Specifically binds the 5'-AACAAAT-3' DNA motif present in enhancers and super-enhancers and promotes expression of genes important for chondrogenesis, including cartilage matrix protein-coding genes, such as COL2A1 and AGC1. Required for overt chondrogenesis when condensed prechondrocytes differentiate into early stage chondrocytes: SOX5 and SOX6 cooperatively bind with SOX9 on active enhancers and super-enhancers associated with cartilage-specific genes, and thereby potentiate SOX9's ability to transactivate. Not involved in precartilaginous condensation, the first step in chondrogenesis,

Target Details

during which skeletal progenitors differentiate into prechondrocytes. Together with SOX6, required to form and maintain a pool of highly proliferating chondroblasts between epiphyses and metaphyses, to form columnar chondroblasts, delay chondrocyte prehypertrophy but promote hypertrophy, and to delay terminal differentiation of chondrocytes on contact with ossification fronts. Binds to the proximal promoter region of the myelin protein MPZ gene. {ECO:0000250|UniProtKB:P35710}.

Molecular Weight: 84.0 kDa

UniProt: [P35711](#)

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