

Datasheet for ABIN7563877
KLF4 Protein (AA 1-483) (His tag)



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Overview

Quantity:	1 mg
Target:	KLF4
Protein Characteristics:	AA 1-483
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLF4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Klf4 Protein expressed in mammalian cells.
Sequence:	<p>MRQPPGESDM AVSDALLPSF STFASGPAGR EKTLRPAGAP TNRWREELSH MKRLPPLPGR PYDLAATVAT DLESGGAGAA CSSNNPALLA RRETEEFNDL LDLDFILSNS LTHQESVAAT VTTSASASSS SSPASSGPAS APSTCSFSYP IRAGGDPGVA ASNTGGGLLY SRESAPPPTA PFNLADINDV SPSGGFVAEL LRPELDPVYI PPQQPQPPGG GLMGKFVKA SLTPPGSEYS SPSVISVSKG SPDGSHPVVW APYSGGPPRM CPKIKQEAVP SCTVSRSLA HLSAGPQLSN GHRPNTHDFP LGRQLPTRTT PTLSPHEELN SRDCHPGLPL PPGFHPHPGP NYPPFLPDQM QSQVPSLHYQ ELMPPGSCLP EEPKPKRGRR SWPRKRTATH TCDYAGCGKT YTKSSHLKAH LRTHTGEKPY HCDWDGCGWK FARSEDLTRH YRKHTGHRPF QCQKCDRAFS RSDHLALHMK RHF 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>

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:

KLF4

Alternative Name:

Klf4 ([KLF4 Products](#))

Background:

Krueppel-like factor 4 (Epithelial zinc finger protein EZF) (Gut-enriched krueppel-like factor), FUNCTION: Transcription factor, can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence (PubMed:10431239, PubMed:10556311, PubMed:15358627, PubMed:16954384, PubMed:17060454, PubMed:19816951, PubMed:20071344, PubMed:29593216). Binds to the promoter region of its own gene and can activate its own transcription (PubMed:10431239, PubMed:10556311, PubMed:15358627, PubMed:16954384, PubMed:17060454, PubMed:19816951, PubMed:20071344, PubMed:29593216). Regulates the expression of key transcription factors during embryonic development (PubMed:10431239, PubMed:10556311, PubMed:15358627, PubMed:16954384, PubMed:17060454, PubMed:19816951, PubMed:20071344, PubMed:29593216). Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation (PubMed:10431239, PubMed:10556311, PubMed:15358627, PubMed:16954384, PubMed:17060454, PubMed:19816951, PubMed:20071344, PubMed:29593216). Required for establishing the

Target Details

	barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription (By similarity). {ECO:0000250, ECO:0000269 PubMed:10431239, ECO:0000269 PubMed:10556311, ECO:0000269 PubMed:15358627, ECO:0000269 PubMed:16954384, ECO:0000269 PubMed:17060454, ECO:0000269 PubMed:19816951, ECO:0000269 PubMed:20071344, ECO:0000269 PubMed:29593216}.
Molecular Weight:	51.9 kDa
UniProt:	Q60793
Pathways:	Peptide Hormone Metabolism, Stem Cell Maintenance

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