Datasheet for ABIN7554378

LEF1 Protein (AA 1-399) (His tag)

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Overview

Quantity:	1 mg
Target:	LEF1
Protein Characteristics:	AA 1-399
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LEF1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat LEF1 Protein expressed in mammalien cells.
Sequence:	MPQLSGGGGG GGGDPELCAT DEMIPFKDEG DPQKEKIFAE ISHPEEEGDL ADIKSSLVNE SEIIPASNGH EVARQAQTSQ EPYHDKAREH PDDGKHPDGG LYNKGPSYSS YSGYIMMPNM NNDPYMSNGS LSPPIPRTSN KVPVVQPSHA VHPLTPLITY SDEHFSPGSH PSHIPSDVNS KQGMSRHPPA PDIPTFYPLS PGGVGQITPP LGWQGQPVYP ITGGFRQPYP SSLSVDTSMS RFSHHMIPGP PGPHTTGIPH PAIVTPQVKQ EHPHTDSDLM HVKPQHEQRK EQEPKRPHIK KPLNAFMLYM KEMRANVVAE CTLKESAAIN QILGRRWHAL SREEQAKYYE LARKERQLHM QLYPGWSARD NYGKKKKRKR EKLQESASGT GPRMTAAYI **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:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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:	LEF1
Alternative Name:	LEF1 (LEF1 Products)
Background:	Lymphoid enhancer-binding factor 1 (LEF-1) (T cell-specific transcription factor 1-alpha) (TCF1-alpha),FUNCTION: Transcription factor that binds DNA in a sequence-specific manner (PubMed:2010090). Participates in the Wnt signaling pathway (By similarity). Activates transcription of target genes in the presence of CTNNB1 and EP300 (By similarity). PIAG antagonizes both Wnt-dependent and Wnt-independent activation by LEF1 (By similarity). TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by LEF1 and CTNNB1 (PubMed:11266540). Regulates T-cell receptor alpha enhancer function (PubMed:19653274). Required for IL17A expressing gamma-delta T-cell maturation and development, via binding to regulator loci of BLK to modulate expression (By similarity). Acts as a positive regulator of odontoblast differentiation during mesenchymal tooth germ formation, expression is repressed during the bell stage by MSX1-mediated inhibition of CTNNB1 signaling (By similarity). May play a role in hair cell differentiation and follicle morphogenesis (By similarity). {ECO:0000250|UniProtKB:P27782, ECO:0000269|PubMed:11266540, ECO:0000269|PubMed:19653274, ECO:0000269|PubMed:2010090}., FUNCTION: [Isoform 1]:

Target Details

	Transcriptionally activates MYC and CCND1 expression and enhances proliferation of pancreatic tumor cells. {ECO:0000269|PubMed:19653274}., FUNCTION: [Isoform 3]: Lacks the CTNNB1 interaction domain and may therefore be an antagonist for Wnt signaling. {ECO:0000269|PubMed:11326276}., FUNCTION: [Isoform 5]: Transcriptionally activates the fibronectin promoter, binds to and represses transcription from the E-cadherin promoter in a CTNNB1-independent manner, and is involved in reducing cellular aggregation and increasing cell migration of pancreatic cancer cells. {ECO:0000269|PubMed:19653274}.
Molecular Weight:	44.2 kDa
UniProt:	Q9UJU2
Pathways:	WNT Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Hormone Metabolic Process, Nuclear Hormone Receptor Binding, Chromatin Binding

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

