

Datasheet for ABIN7564845  
**GRHL1 Protein (AA 1-618) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GRHL1
Protein Characteristics:	AA 1-618
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRHL1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Grhl1 Protein expressed in mammalian cells.
Sequence:	<p>MTQEYDNKRP VLVLQNEALY PQRRSYTSED EAWKSFLENP LTAATKAMMS INGDEDSAAA</p> <p>LGLLYDYYKV PRERRSSAVK PEGEHPEPEH SKRNSIPNVT EQPLISAGEN RVQVLKNVPF</p> <p>NIVLPHSNQL GIDKRGHLTA PDTTVTVSIA TMPTHSIKTE IQPHGFAVGI PPAVYHSEPT</p> <p>ERVVVFDRLS STDQFSSGTQ PPNAQRRTPD STFSETFKEG VQEVFFPSEL SLRMPGMNSE</p> <p>DYVFDNVSGN NFEYTLASK SLRQKQGDST MTYLNKGQFY PVTLEKSSN EGIHHPIKSV</p> <p>RSVIMVFAE DKSREDQLRH WKYWHSRQHT AKQRCIDIAD YKESFNTISN IEEIAYNAIS</p> <p>FTWDINDEAK VFISVNCLST DFSSQKGVKG LPLNIQIDTY SYNNSRNPV HRAYCQIKVF</p> <p>CDKGAERKIR DEERKQSKRK VSDVKVQLLP SHKRTDITVF KPFLDLDTQP VLFIPDVHFT</p> <p>NLQRGSHVLS LPSEEEGEG SVLKRGPFGT EDDFGVPPPA KLTRTEEPKR VLLYVRKESE</p> <p>EVFDALMLKT PSLKGLMEAI SDKYDVPHDK IGKIFKCKK GILVNMDNDI VKHYSNEDTF</p> <p>QLQIEEAGGS YKLTLEI <b>Sequence without tag. The proposed Purification-Tag is based on</b></p>

**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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	GRHL1
Alternative Name:	Grhl1 ( <a href="#">GRHL1 Products</a> )
Background:	<p>Grainyhead-like protein 1 homolog (Transcription factor CP2-like 2) (Transcription factor LBP-32),FUNCTION: Transcription factor involved in epithelial development. Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' (PubMed:18288204, PubMed:21081122). Important regulator of DSG1 in the context of hair anchorage and epidermal differentiation, participates in the maintenance of the skin barrier (PubMed:18288204, PubMed:24586629). There is no genetic interaction with GRHL3, nor functional cooperativity due to diverse target gene selectivity during epithelia development (PubMed:21081122). May play a role in regulating glucose homeostasis and insulin signaling. {ECO:0000269 PubMed:18288204, ECO:0000269 PubMed:21081122, ECO:0000269 PubMed:24586629, ECO:0000269 PubMed:36688410}.</p>
Molecular Weight:	70.2 kDa

## Target Details

UniProt: [Q921D9](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

## 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