

Datasheet for ABIN7563817
GRHL3 Protein (AA 1-603) (His tag)



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Overview

Quantity:	1 mg
Target:	GRHL3
Protein Characteristics:	AA 1-603
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRHL3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Grhl3 Protein expressed in mammalian cells.
Sequence:	<p>MSNELDFRSV RLLKNDPVSF QKFPYSNEDE AWKTYLENPL TAATKAMMRV NGDEESVAAL SFLYDYDMGP KEKRILSSST GGRNDQGKKF YHSM DYEPDL APLESPHLM KFLTENVSGS PDYTDQLKKN NLLGLEGVLP TPGKTNTVPP GPSKLEASSM DSYLLPASDI YDNGSLNSLF ESIHGVPPTQ RWQPDSTFKD DPQESLLFPD ILKTSPDPPC PEDYPGLKSD FEYTLGSPKA IHIKAGESPM AYLNKGQFYP VTLRTPAGGK GLALSSSKVK SVVMVVDND KVPVEQLRFW RHWHSRQPTA KQRVIDVADC KENFNTVQHI EEVAYNALSF VWNVNEEAKV FIGVNCSTLD FSSQKGVKGV PLNLQIDTYD CGAGTERLVH RAVCQIKIFC DKGAERKMRD DERKQFRRKV KCPDSSNNAG IKGCLLSGFR GNETTYLRPE TDLETQPVLF IPNLHFSSLQ RPPGVVPSAG HSSSDRLPLK RTCSPFAEEF EPLPSKQAKE DDLQRVLLYV RRETEEVFDA LMLKTPDLKG LRNAISEKYG LPEENICKVY KKCKRGILVN MDNNIIQHYS NHVAFLLDMG ELDGKIQIIL KEL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the</p>

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">• 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). <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:	GRHL3
Alternative Name:	Grhl3 (GRHL3 Products)
Background:	<p>Grainyhead-like protein 3 homolog (Transcription factor CP2-like 4),FUNCTION: Transcription factor playing important roles in primary neurulation and in the differentiation of stratified epithelia of both ectodermal and endodermal origin. Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' acting as an activator and repressor on distinct target genes. Essential for epidermal differentiation and barrier formation at the end of embryogenesis with TGM3 as critical direct target (PubMed:21081122, PubMed:20654612, PubMed:25347468). Exhibits functional redundancy with GRHL2 in epidermal morphogenetic events such as eyelid fusion and epidermal wound repair (PubMed:21081122). Despite being dispensable during normal epidermal homeostasis in the adulthood, is again required for barrier repair after immune-mediated epidermal damage, regulates distinct gene batteries in embryonic epidermal differentiation and adult epidermal barrier reformation after injury (PubMed:25347468). Plays</p>

Target Details

unique and cooperative roles with GRHL2 in establishing distinct zones of primary neurulation. Essential for spinal closure, functions cooperatively with GRHL2 in closure 2 (forebrain/midbrain boundary) and posterior neuropore closure (PubMed:14608380, PubMed:20654612). Also required for proper development of the oral periderm (PubMed:24360809). No genetic interaction with GRHL1, no functional cooperativity due to diverse target gene selectivity (PubMed:21081122). {ECO:0000269|PubMed:14608380, ECO:0000269|PubMed:16949565, ECO:0000269|PubMed:20654612, ECO:0000269|PubMed:21081122, ECO:0000269|PubMed:24360809, ECO:0000269|PubMed:25347468}.

Molecular Weight: 67.8 kDa

UniProt: [Q5FWH3](#)

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