

Datasheet for ABIN7548790  
**KLHL3 Protein (AA 1-587) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KLHL3
Protein Characteristics:	AA 1-587
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHL3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat KLHL3 Protein expressed in mammalien cells.
Sequence:	MEGESVKLSS QTLIQAGDDE KNQRTITVNP AHMGKAFKVM NELRSKQLLC DVMIVAEDVE IEAHRVVLAA CSPYFCAMFT GDMSESKAKK IEIKDVDGQT LSKLIDYIYT AEIEVTEENV QVLLPAASLL QLMDVRQNCC DFLQSQLHPT NCLGIRAFAD VHTCTDLLQQ ANAYAEQHFP EVMLGEEFLS LSLDQVCSLI SSDKLTVSSE EKVFEAVISW INYEKETRLE HMAKLMEHVR LPLLPRDYLV QTVEEEALIK NNNTCKDFLI EAMKYHLLPL DQRLLIK NPR TKPRTPVSLP KVMIVGGQA PKAIRSVECY DFEEDRWDQI AELPSRR CRA GVVFMAGHVY AVGGFNGSLR VRTVDVYDGV KDQWTSIASM QERRSTLGAA VLNDLLYAVG GFDGSTGLAS VEAYSYKTNE WFFVAPMNTR RSSVGVGVVE GKLYAVGGYD GASRQCLSTV EQYNPATNEW IYVADMSTRR SGAGVGVLSG QLYATGGHDG PLVRKSVEVY DPGTNTWKQV ADMNMCR RNA GVCAVNGLLY VVGDDGSCN LASVEYYPV TDKWTLPTN MSTGRSYAGV AVIHKSL <b>Sequence without tag.</b> <b>The proposed Purification-Tag is based on experiences with the expression system, a</b>

**different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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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.

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Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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Grade:

custom-made

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## Target Details

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Target:

KLHL3

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Alternative Name:

KLHL3 ([KLHL3 Products](#))

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Background:

Kelch-like protein 3,FUNCTION: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a regulator of ion transport in the distal nephron (PubMed:14528312, PubMed:22406640, PubMed:23387299, PubMed:23453970, PubMed:23576762, PubMed:23665031, PubMed:25313067, PubMed:35093948). The BCR(KLHL3) complex acts by mediating ubiquitination and degradation of WNK1 and WNK4, two activators of Na-Cl cotransporter SLC12A3/NCC in distal convoluted tubule cells of kidney, thereby regulating NaCl reabsorption (PubMed:23387299, PubMed:23453970, PubMed:23576762, PubMed:23665031, PubMed:25313067, PubMed:35093948). The BCR(KLHL3) complex also mediates ubiquitination and degradation of WNK3 (PubMed:35179207). The BCR(KLHL3) complex also mediates ubiquitination of CLDN8, a tight-junction protein required for paracellular chloride transport in the kidney, leading to its

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## Target Details

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degradation (By similarity). {ECO:0000250|UniProtKB:E0CZ16, ECO:0000269|PubMed:14528312, ECO:0000269|PubMed:22406640, ECO:0000269|PubMed:23387299, ECO:0000269|PubMed:23453970, ECO:0000269|PubMed:23576762, ECO:0000269|PubMed:23665031, ECO:0000269|PubMed:25313067, ECO:0000269|PubMed:35093948}.

Molecular Weight: 65.0 kDa

UniProt: [Q9UH77](#)

## Application Details

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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

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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