

Datasheet for ABIN7564692
KLHL25 Protein (AA 1-589) (His tag)



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Overview

Quantity:	1 mg
Target:	KLHL25
Protein Characteristics:	AA 1-589
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHL25 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Klhl25 Protein expressed in mammalian cells.
Sequence:	MSVSVHETRK SRSSTGSMNI SVFHKASHPD CVLAHLNLTNR KHCMFTDVTL WAGDRAFPCH RAVLAASSRY FEAMFSHGLR ESRDDTVNFQ DNLHPEVLEL LLDFAYSSRI VINEENAESL LEAGDMLQFH DVRDAAAEFL EKNLSPSNCL GMMVLSDAHQ CRRLYEFSCR MSLVHFETVR QSEDFNLSLR DTLDDLISR D ELETEDERVV FEAILQWVKH DLEQRKAHLP LLLRNVRAL LPSDCLKNAV SGEALLMADE CTKLILDEAF RCKTKILLND GVVTS PFARP RKAGHTLLIL GGQTFMCDKI YQVDHKAKEI IPKADLPSPR KEFSASAIGC KVVYVTGGRGS ENGVSKDVVW YDTVHEEWSK AAPMLIARFG HGSAELENCL YVVGHTSLA GIFPASPSVS LKQVEKYDPG DNKWTMVAPM RDGVSNAAVV SAKLKL FVFG GTSIHRDMVS KVQCFDPSEN RWTIKAECPO PWRYTAAAVL GSQIFIMGGD TEYTAASAYR FDCETNQWTR IGDMTAKRMS CHAVASGNKL YVVG YFGTQ RCKTLDCYDP TSDTWNCITT VPYSLIPTAF VSTWKHLPA 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

Product Details

special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: KLHL25

Alternative Name: KIH125 ([KLHL25 Products](#))

Background: Kelch-like protein 25,FUNCTION: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex involved in various processes, such as translation homeostasis and lipid synthesis (PubMed:22578813, PubMed:34491895). The BCR(KLHL25) ubiquitin ligase complex acts by mediating ubiquitination of hypophosphorylated EIF4EBP1 (4E-BP1): ubiquitination and subsequent degradation of hypophosphorylated EIF4EBP1 (4E-BP1) probably serves as a homeostatic mechanism to maintain translation and prevent eIF4E inhibition when eIF4E levels are low (PubMed:22578813). The BCR(KLHL25) complex does not target EIF4EBP1 (4E-BP1) when it is hyperphosphorylated or associated with eIF4E (PubMed:22578813). The BCR(KLHL25) complex also acts as a regulator of lipid synthesis by mediating ubiquitination and degradation of ACLY, thereby inhibiting lipid synthesis

Target Details

(PubMed:34491895). BCR(KLHL25)-mediated degradation of ACLY promotes fatty acid oxidation and is required for differentiation of inducible regulatory T (iTreg) cells (PubMed:34491895). {ECO:0000269|PubMed:22578813, ECO:0000269|PubMed:34491895}.

Molecular Weight: 65.8 kDa

UniProt: [Q8R2P1](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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