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KLHL25 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16430a

Specification

KLHL25 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	Q9H0H3

KLHL25 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 64410

Other Names
Kelch-like protein 25, Ectoderm-neural cortex protein 2, ENC-2, KLHL25, ENC2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KLHL25 Antibody (N-term) Blocking Peptide - Protein Information

Name KLHL25 {ECO:0000303|PubMed:22578813, ECO:0000312|HGNC:HGNC:25732}

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:27664236, 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 (PubMed:27664236, PubMed:34491895). BCR(KLHL25)-mediated degradation of ACLY promotes fatty acid oxidation and is required for differentiation of inducible regulatory T (iTreg) cells (PubMed:<a

href="http://www.uniprot.org/citations/34491895" target="_blank">34491895).

KLHL25 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

KLHL25 Antibody (N-term) Blocking Peptide - Images

KLHL25 Antibody (N-term) Blocking Peptide - References

Lunetta, K.L., et al. BMC Med. Genet. 8 SUPPL 1, S13 (2007) :Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)