

KLHL3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10138**Specification****KLHL3 antibody - N-terminal region - Product Information**

Application	WB, IHC
Primary Accession	O9UH77
Other Accession	O9UH77 , NP_059111 , NM_017415
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65 kDa KDa

KLHL3 antibody - N-terminal region - Additional Information**Gene ID** 26249**Alias Symbol** **FLJ40871, KIAA1129, MGC44594, PHA2D**
Other Names
Kelch-like protein 3, KLHL3, KIAA1129**Target/Specificity**

KLHL3 protein contains a poxvirus and zinc finger domain at the N-terminus and six tandem repeats (kelch repeats) at the C-terminus. At the amino acid level, KLHL3 shares 77% similarity with Drosophila kelch and 89% similarity with Mayven (KLHL2), another human kelch homolog. At least three isoforms are produced and may be the result of alternative promoter usage. The KLHL3 maps within the smallest commonly deleted segment in myeloid leukemias characterized by a deletion of 5q, however, no inactivating mutations of KLHL3 could be detected in malignant myeloid disorders with loss of 5q.

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-KLHL3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

KLHL3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

KLHL3 antibody - N-terminal region - Protein Information**Name** KLHL3 {ECO:0000303|PubMed:10843806, ECO:0000312|HGNC:HGNC:6354}

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 degradation (By similarity).

Cellular Location

Cytoplasm, cytosol. Cytoplasm, cytoskeleton

Tissue Location

Widely expressed..

KLHL3 antibody - N-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)