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# KLHL3 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10138

## Product Information

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|---|---|
| **Application** | WB, IHC |
| **Primary Accession** | Q9UH77 |
| **Other Accession** | Q9UH77, 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** | 64970 |

## Additional Information

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|---|---|
| **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. |

## Protein Information

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|---|---|
| **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).

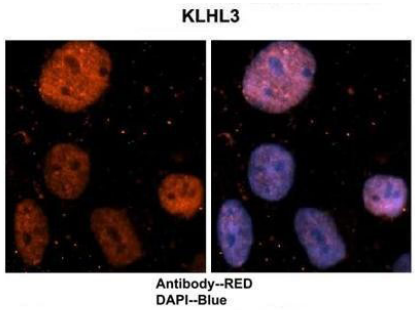
**Cellular Location** Cytoplasm, cytosol. Cytoplasm, cytoskeleton

**Tissue Location** Widely expressed..

## Background

This is a rabbit polyclonal antibody against KLHL3. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).

## Images




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