

**KLHL3 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11522**

## Specification

## KLHL3 antibody - N-terminal region - Product Information

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Application       | WB                                                    |
| Primary Accession | <a href="#">Q9UH77</a>                                |
| Other Accession   | <a href="#">NM_017415</a> , <a href="#">NP_059111</a> |
| Reactivity        | Human, Rat, Rabbit, Bovine, Dog                       |
| Predicted         | Human, Rabbit, Bovine, Dog                            |
| Host              | Rabbit                                                |
| Clonality         | Polyclonal                                            |
| Calculated MW     | 65kDa kDa                                             |

### KLHL3 antibody - N-terminal region - Additional Information

**Gene ID** 26249

|                                       |       |
|---------------------------------------|-------|
| Alias Symbol                          | PHA2D |
| Other Names                           |       |
| Kelch-like protein 3, KLHL3, KIAA1129 |       |

## Format

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

## Reconstitution & Storage

Add 100 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:<a href="http://www.uniprot.org/citations/14528312" target="\_blank">14528312</a>, PubMed:<a href="http://www.uniprot.org/citations/22406640" target="\_blank">22406640</a>, PubMed:<a href="http://www.uniprot.org/citations/23387299" target="\_blank">23387299</a>, PubMed:<a href="http://www.uniprot.org/citations/23453970" target="\_blank">23453970</a>, PubMed:<a href="http://www.uniprot.org/citations/23576762" target="\_blank">23576762</a>, PubMed:<a href="http://www.uniprot.org/citations/23665031" target="\_blank">23665031</a>, PubMed:<a href="http://www.uniprot.org/citations/25313067" target="\_blank">25313067</a>, PubMed:<a

href="http://www.uniprot.org/citations/35093948" target="\_blank">35093948</a>). 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:<a href="http://www.uniprot.org/citations/23387299" target="\_blank">23387299</a>, PubMed:<a href="http://www.uniprot.org/citations/23453970" target="\_blank">23453970</a>, PubMed:<a href="http://www.uniprot.org/citations/23576762" target="\_blank">23576762</a>, PubMed:<a href="http://www.uniprot.org/citations/23665031" target="\_blank">23665031</a>, PubMed:<a href="http://www.uniprot.org/citations/25313067" target="\_blank">25313067</a>, PubMed:<a href="http://www.uniprot.org/citations/35093948" target="\_blank">35093948</a>). The BCR(KLHL3) complex also mediates ubiquitination and degradation of WNK3 (PubMed:<a href="http://www.uniprot.org/citations/35179207" target="\_blank">35179207</a>). 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

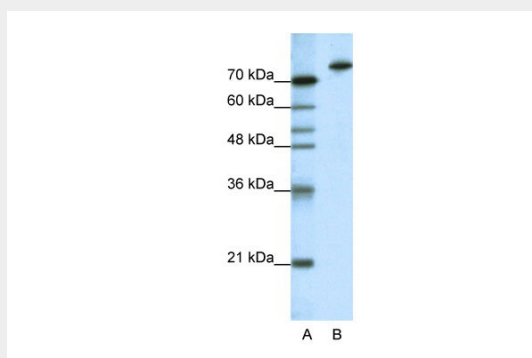
Widely expressed..

#### 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](#)

#### KLHL3 antibody - N-terminal region - Images



WB Suggested Anti-KLHL3 Antibody Titration: 1.25µg/ml

ELISA Titer: 1:62500

Positive Control: HepG2 cell lysate

#### KLHL3 antibody - N-terminal region - References

Lai, F., et al., (2000) Genomics 66 (1), 65-75  
**Reconstitution and Storage:** For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.