

KLHL3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17126c**Specification**

KLHL3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UH77](#)**KLHL3 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 26249

Other Names

Kelch-like protein 3, KLHL3, KIAA1129

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.

KLHL3 Antibody (Center) Blocking Peptide - 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).

target="_blank">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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KLHL3 Antibody (Center) Blocking Peptide - Images**KLHL3 Antibody (Center) Blocking Peptide - Background**

Probable substrate-specific adapter of an E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

KLHL3 Antibody (Center) Blocking Peptide - References

Schmutz, J., et al. Nature 431(7006):268-274(2004)Yeo, A., et al. J. Neurochem. 76(6):1688-1700(2001)Lai, F., et al. Genomics 66(1):65-75(2000)Mizutani, A., et al. J. Biol. Chem. 275(13):9823-9831(2000)