

KLHL3 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17126c**Specification**

KLHL3 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q9UH77
Other Accession	F1MBP6 , NP_059111.2
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	207-234

KLHL3 Antibody (Center) - Additional Information**Gene ID** 26249**Other Names**

Kelch-like protein 3, KLHL3, KIAA1129

Target/Specificity

This KLHL3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 207-234 amino acids from the Central region of human KLHL3.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

KLHL3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KLHL3 Antibody (Center) - 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

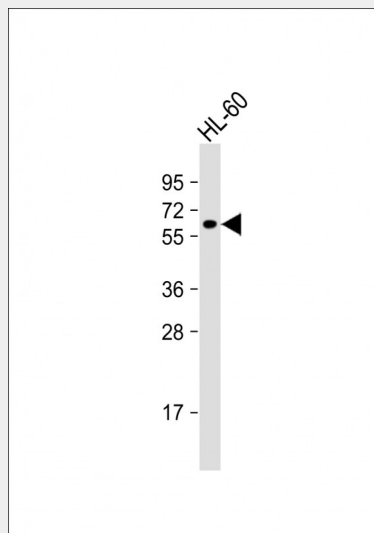
Widely expressed..

KLHL3 Antibody (Center) - 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 (Center) - Images



Anti-KLHL3 Antibody (Center) at 1:1000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65kDa Blocking/Dilution buffer: 5% NFDM/TBST.

KLHL3 Antibody (Center) - 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) - 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)