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Rabbit Anti-KLHL3 antibody

SL8053R

Product Name:	KLHL3
Chinese Name:	Kelch样蛋白3抗体
Alias:	KLHL 3; FLJ40871; kelch (Drosophila) like 3; kelch like 3 (Drosophila); kelch like 3; Kelch like protein 3; KIAA1129; MGC44594; KLHL3_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	65kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KLHL3:51-160/587
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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. The BCR(KLHL3) complex may act by mediating ubiquitination of SLC12A3/NCC, thereby regulating SLC12A3/NCC subcellular location at the cell membrane.

Subunit:
Component of the BCR(KLHL3) E3 ubiquitin ligase complex, at least composed of CUL3 and KLHL3 and RBX1 (Probable). Interacts with SLC12A3.

Subcellular Location:
Cytoplasm, cytoskeleton. Cytoplasm, cytosol.

Tissue Specificity:
Widely expressed.

DISEASE:
Defects in KLHL3 are the cause of Pseudohypoaldosteronism type 2D (PHA2D) [MIM:614495]. A disorder characterized by severe hypertension, hyperkalemia, hyperchloremia, hyperchloremic metabolic acidosis, and correction of physiologic abnormalities by thiazide diuretics. PHA2D inheritance is autosomal dominant or recessive.

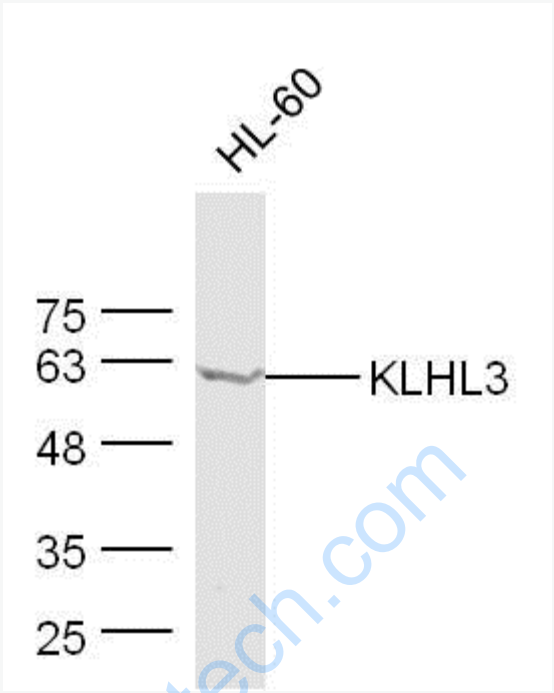
Similarity:
Contains 1 BACK (BTB/Kelch associated) domain.
Contains 1 BTB (POZ) domain.
Contains 6 Kelch repeats.

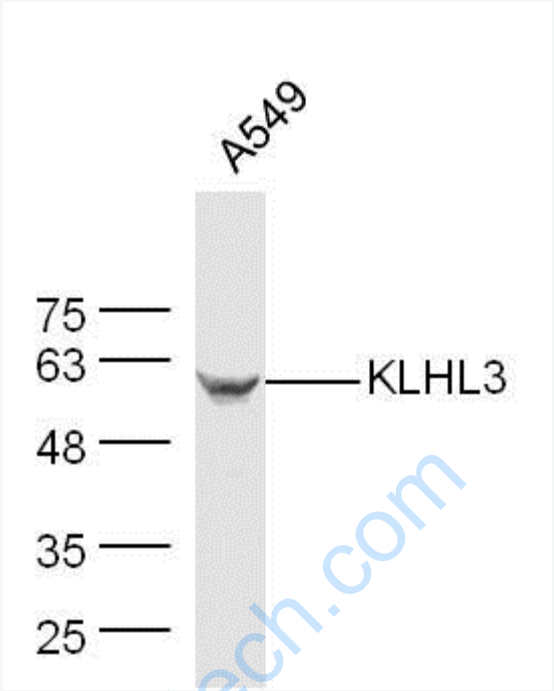
SWISS:
Q9UH77

Gene ID:
26249

Database links:
UniProtKB/Swiss-Prot: Q9UH77.2

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: HL-60 Cell (Human) Lysate at 40 ug Primary: Anti-KLHL3 (SL8053R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 65 kD Observed band size: 60 kD



Sample: A549 Cell (Human) Lysate at 40 ug

Primary: Anti-KLHL3 (SL8053R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD

Observed band size: 60 kD