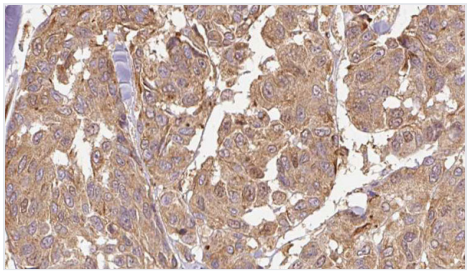
KLHL3 Antibody – Rabbit Polyclonal

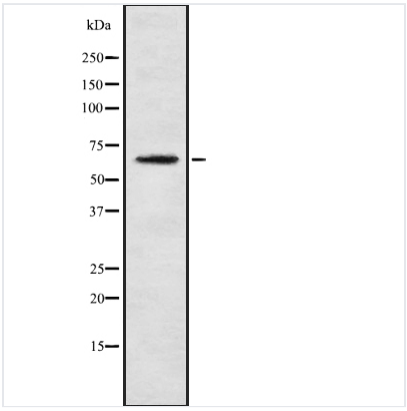
PRODUCT OVERVIEW

Product Name	KLHL3, Polyclonal Antibody
Full Product Name	KLHL3 Antibody
Product Gene Name	anti-KLHL3 antibody
Product Synonym Names	FLJ40871; kelch (Drosophila) like 3; kelch like 3 (Drosophila); kelch like 3; Kelch like protein 3; KIAA1129; KLHL 3; KLHL3; MGC44594
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	KLHL3 antibody detects endogenous levels of total KLHL3
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	KLHL3 peptide (MBS9627701) is used for blocking the activity of KLHL3 antibody (MBS9608989)
Molecular Weight	Observed: 64 kDa Predicted: 65 kDa
3D Structure	ModBase 3D Structure for Q9UH77
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human KLHL3
Subcellular Location	Cytoplasmic and Cytoskeleton.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	**Bovine, Horse, Sheep, Rabbit**
Similarity	Bovine (91%), Horse (80%), Sheep (91%), Rabbit (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KLHL3 antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-KLHL3 antibody	WB: 1:1000-3000 IHC: 1:200 IF/ICC: 1:100-1:500

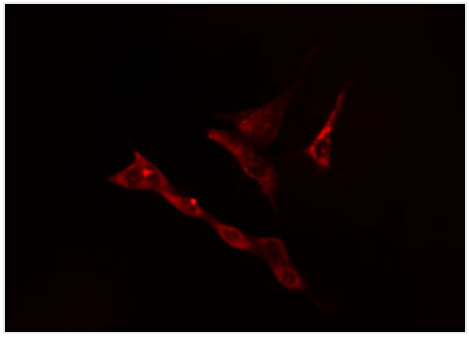
Related Product Information for anti-KLHL3 antibody	Function: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a regulator of ion transport in the distal nephron (PubMed:14528312, PubMed:22406640, PubMed:23387299, PubMed:23453970, PubMed:23576762, PubMed:23665031). The BCR(KLHL3) complex acts by mediating ubiquitination of WNK4, an inhibitor of potassium channel KCNJ1, leading to WNK4 degradation (PubMed:23387299, PubMed:23453970, PubMed:23576762, PubMed:23665031). The BCR(KLHL3) complex also mediates ubiquitination and degradation of CLDN8, a tight-junction protein required for paracellular chloride transport in the kidney (By similarity). Subunit Structure: Homodimer (PubMed:28052936). Component of the BCR(KLHL3) E3 ubiquitin ligase complex, at least composed of CUL3 and KLHL3 and RBX1 (Probable) (PubMed:23453970, PubMed:23576762, PubMed:23573258). Interacts with SLC12A3 (PubMed:22406640). Interacts with WNK1 and WNK4 (PubMed:23387299, PubMed:23453970, PubMed:23573258, PubMed:23576762, PubMed:23665031, PubMed:26435498, PubMed:27727489). Interacts with CLDN8 (By similarity). Post-translational Modifications: Phosphorylation at Ser-433 by PKA decreases the interaction with WNK4, Leading to inhibit WNK4 degradation by the BCR(KLHL3) complex (PubMed:26435498, PubMed:27727489). Phosphorylation at Ser-433 is increased by insulin (PubMed:26435498).
Other Notes	Small volumes of anti-KLHL3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KLHL3 purchase	MBS9608989 is an antibody targeting KLHL3. Also known as KLHL3 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-KLHL3 antibody
MBS9608989 at 1/100 staining Human Melanoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-KLHL3 antibody
Western blot analysis of KLHL3 using Jurkat whole cell lysates



Immunofluorescence (IF) of anti-KLHL3 antibody
MBS9608989 staining RAW264.7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLHL3. It may not necessarily be applicable to this product.

NCBI GI #	380692310

NCBI GeneID	26249
NCBI Accession #	NP_001244123.1
UniProt Primary Accession #	Q9UH77
UniProt Secondary Accession #	Q9UH75; Q9UH76; Q9ULU0; Q9Y6V6; B2RBK7
UniProt Related Accession #	Q9UH77
GenBank Nucleotide #	NM_001257194.1
NCBI Official Full Name	kelch-like protein 3 isoform 2
NCBI Official Synonym Full Names	kelch like family member 3
NCBI Official Symbol	KLHL3
NCBI Official Synonym Symbols	PHA2D
UniProt Protein Name	Kelch-like protein 3
Protein Family	Kelch-like protein
UniProt Gene Name	KLHL3
NCBI Protein Information	kelch-like protein 3
NCBI Summary for KLHL3	This gene is ubiquitously expressed and encodes a full-length protein which has an N-terminal BTB domain followed by a BACK domain and six kelch-like repeats in the C-terminus. These kelch-like repeats promote substrate ubiquitination of bound proteins via interaction of the BTB domain with the CUL3 (cullin 3) component of a cullin-RING E3 ubiquitin ligase (CRL) complex. Muatations in this gene cause pseudohypoaldosteronism type IID (PHA2D); a rare Mendelian syndrome featuring hypertension, hyperkalaemia and metabolic acidosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]
UniProt Comments for KLHL3	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). The BCR(KLHL3) complex acts by mediating ubiquitination of WNK4, an inhibitor of potassium channel KCNJ1, leading to WNK4 degradation (PubMed:23387299, PubMed:23453970, PubMed:23576762, PubMed:23665031). The BCR(KLHL3) complex also mediates ubiquitination and degradation of CLDN8, a tight-junction protein required for paracellular chloride transport in the kidney ().
Research Articles on KLHL3	**1.** A new recessive mutation in KLHL3 (S553L) was identified in familial hyperkalemia and hypertension. Increased urinary NCC was found in affected members (heterozygous) with dominant KLHL3 Q309R, and in affected members (homozygous) of the recessive form.
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