

Rabbit anti-Human, Mouse KLHL3 Polyclonal Antibody | anti-KLHL3 antibody

KLHL3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327591	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

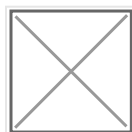
PRODUCT SYNONYMS

KLHL3; Polyclonal Antibody; KLHL3 Antibody; FLJ40871; kelch (Drosophila) like 3; kelch like 3 (Drosophila); kelch like 3; Kelch like protein 3; KIAA1129; KLHL 3; MGC44594; anti-KLHL3 antibody

PRODUCT SPECIFICATIONS

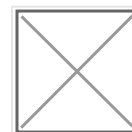
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	KLHL3 antibody detects endogenous levels of total KLHL3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	555
Applicable Applications for anti-KLHL3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
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
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



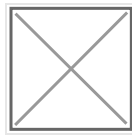
IF (Immunofluorescence)

AAA327591 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.



WB (Western Blot)

Western blot analysis of KLHL3 using Jurkat whole cell lysates



IHC (Immunohistochemistry)

AAA327591 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.

ADDITIONAL INFORMATION

Related Product Information for anti-KLHL3 antibody	<p>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).</p> <p>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).</p> <p>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).</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	380692310
NCBI GeneID	26249
NCBI Accession #	NP_001244123.1
NCBI GenBank Nucleotide #	NM_001257194.1
UniProt Accession #	Q9UH77; Q9UH75; Q9UH76; Q9ULU0; Q9Y6V6; B2RBK7
Molecular Weight	Observed: 64 kDa Predicted: 65 kDa
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
NCBI Protein Information	kelch-like protein 3
UniProt Protein Name	Kelch-like protein 3
UniProt Gene Name	KLHL3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.