

## **KLHL15 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56394

### **Specification**

## **KLHL15 Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q96M94</u>

Reactivity Rat, Pig, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 70 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human KLHL15

Epitope Specificity 401-500/604

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Contains 1 BACK (BTB/Kelch associated)

domain. Contains 1 BTB (POZ) domain.

SUBUNIT Contains 5 Kelch repeats.
Interacts with CUL3.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

### **Background Descriptions**

KLHL15 is believed to be a substrate-specific adapter of an E3 ubiquitin-protein ligase complex which regulates the ubiquitination, and subsequent proteasomal degradation, of target proteins. KLHL15 contains one BACK (BTB/Kelch associated) domain, five kelch repeats and one BTB domain. The BTB (broad complex, tramtrack and bric-a-brac) domain, also known as the POZ (poxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or C2H2-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function.

### KLHL15 Polyclonal Antibody - Additional Information

**Gene ID 80311** 

**Other Names** 

Kelch-like protein 15, KLHL15, KIAA1677

Dilution

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class</pre>

="dilution\_IHC-P">IHC-P $\sim$ N/A</span><br \><span class



="dilution\_IHC-F">IHC-F~~N/A</span><br \> < span class = "dilution\_IF">IF~~1:50~200</span> < br \> < span class = "dilution\_ICC">ICC~~N/A</span> < br \> < span class = "dilution\_E">E~~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

## **KLHL15 Polyclonal Antibody - Protein Information**

Name KLHL15

Synonyms KIAA1677

### **Function**

Substrate-specific adapter for CUL3 E3 ubiquitin-protein ligase complex (PubMed: <a href="http://www.uniprot.org/citations/14528312" target=" blank">14528312</a>, PubMed:<a href="http://www.uniprot.org/citations/27561354" target="blank">27561354</a>, PubMed:<a href="http://www.uniprot.org/citations/35219381" target="blank">35219381</a>). Acts as an adapter for CUL3 to target the serine/threonine-protein phosphatase 2A (PP2A) subunit PPP2R5B for ubiquitination and subsequent proteasomal degradation, thus promoting exchange with other regulatory subunits (PubMed: <a href="http://www.uniprot.org/citations/23135275" target=" blank">23135275</a>). Acts as an adapter for CUL3 to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation (PubMed: <a href="http://www.uniprot.org/citations/27561354" target=" blank">27561354</a>, PubMed:<a  $href="http://www.uniprot.org/citations/35219381"\ target="\_blank">35219381</a>).\ Through\ the$ regulation of RBBP8/CtIP protein turnover, plays a key role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed: <a href="http://www.uniprot.org/citations/27561354" target=" blank">27561354</a>, PubMed:<a href="http://www.uniprot.org/citations/35219381" target=" blank">35219381</a>).

# **Cellular Location**

Nucleus.

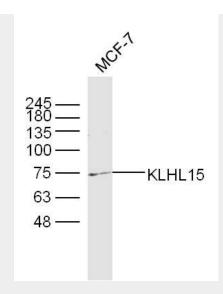
### **KLHL15 Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### KLHL15 Polyclonal Antibody - Images



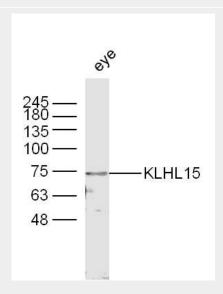


Sample: MCF-7 (human)cell Lysate at 40 ug

Primary: Anti-KLHL15(bs-16764R) at 1/300 dilution

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

Predicted band size: 70 kD Observed band size: 75 kD



Sample: Eye (mouse) Lysate at 40 ug

Primary: Anti-KLHL15(bs-16764R) at 1/300 dilution

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

Predicted band size: 70 kD Observed band size: 70 kD