10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# KLHL15 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56394

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, IHC-F, IF, ICC, E |
| **Primary Accession** | Q96M94 |
| **Reactivity** | Rat, Pig, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 69775 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human KLHL15 |
| **Epitope Specificity** | 401-500/604 |
| **Isotype** | IgG |
| **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. Contains 5 Kelch repeats. |
| **SUBUNIT** | 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. |

## Additional Information

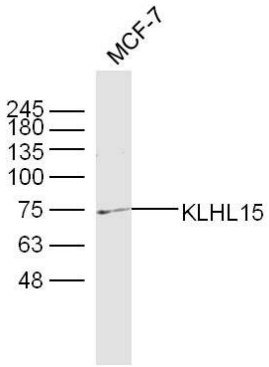
| | |
|---|---|
| **Gene ID** | 80311 |
| **Other Names** | Kelch-like protein 15, KLHL15, KIAA1677 |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Format** | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| **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.

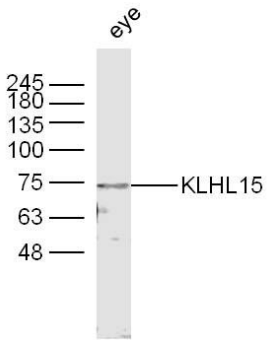
## Protein Information

| | |
|---|---|
| **Name** | KLHL15 |
| **Synonyms** | KIAA1677 |
| **Function** | Substrate-specific adapter for CUL3 E3 ubiquitin-protein ligase complex (PubMed:14528312, PubMed:27561354, PubMed:35219381). 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:23135275). Acts as an adapter for CUL3 to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation (PubMed:27561354, PubMed:35219381). 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:27561354, PubMed:35219381). |
| **Cellular Location** | Nucleus. |

## Images




Sample: MCF-7 (human)cell Lysate at 40 ug
Primary: Anti-KLHL15(AP56394) 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(AP56394) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 70 kD
Observed band size: 70 kD