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# KLHL15 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14298

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q96M94 |
| **Other Accession** | NM_030624, NP_085127 |
| **Reactivity** | Human, Mouse, Rat, Zebrafish, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Mouse, Rat, Rabbit, Zebrafish, Dog, Horse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 69775 |

## Additional Information

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|---|---|
| **Gene ID** | 80311 |
| **Alias Symbol** | MGC126148, MGC126149 |
| **Other Names** | Kelch-like protein 15, KLHL15, KIAA1677 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-KLHL15 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | KLHL15 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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, |

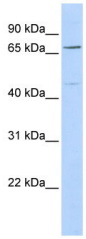
favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed:27561354, PubMed:35219381).

**Cellular Location** Nucleus.

## References


Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nagase T.,et al.DNA Res. 7:347-355(2000).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Furukawa M.,et al.Nat. Cell Biol. 5:1001-1007(2003).


## Images




WB Suggested Anti-KLHL15 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: 293T cell lysate


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.