

**KLDC3 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10224b****Specification**

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**KLDC3 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [O9BQ90](#)  
Other Accession [NP\\_476502.1](#)

**KLDC3 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 116138

**Other Names**

Kelch domain-containing protein 3, Protein Peas, Testis intracellular mediator protein, KLHDC3, PEAS

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KLDC3 Antibody (C-term) Blocking peptide - Protein Information**

**Name** KLHDC3 {ECO:0000303|PubMed:26138980, ECO:0000312|HGNC:HGNC:20704}

**Function**

Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). The CRL2(KLHDC3) complex specifically recognizes proteins with a glycine (Gly) at the C-terminus, leading to their ubiquitination and degradation: recognizes the C-terminal -Arg-(Xaa)n-Arg-Gly, -Arg-(Xaa)n-Lys-Gly, and -Arg-(Xaa)n-Gln-Gly degrons (PubMed:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). The CRL2(KLHDC3) complex mediates ubiquitination and degradation of truncated SELENOV and SEPHS2 selenoproteins produced by failed UGA/Sec decoding, which end with a glycine

(PubMed:<a href="http://www.uniprot.org/citations/26138980" target="\_blank">26138980</a>).  
May be involved in meiotic recombination process (PubMed:<a href="http://www.uniprot.org/citations/12606021" target="\_blank">12606021</a>).

**Cellular Location**

Cytoplasm.

**KLDC3 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**KLDC3 Antibody (C-term) Blocking peptide - Images****KLDC3 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene contains six repeated kelch motifs that are structurally similar to recombination activating gene 2 (RAG2), a protein involved in the activation of the V(D)J recombination. In mouse, this gene is found to express specifically in testis. Its expression in pachytene spermatocytes is localized to cytoplasm and meiotic chromatin, which suggests that this gene may be involved in meiotic recombination. [provided by RefSeq].

**KLDC3 Antibody (C-term) Blocking peptide - References**

Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007)  
Mungall, A.J., et al. Nature 425(6960):805-811(2003)  
Ohinata, Y., et al. DNA Res. 10(2):79-84(2003)