

**KLDC2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP4819b**

**Specification**

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**KLDC2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y2U9</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46099
Antigen Region	293-320

**KLDC2 Antibody (C-term) - Additional Information**

**Gene ID** 23588

**Other Names**

Kelch domain-containing protein 2, Hepatocellular carcinoma-associated antigen 33, Host cell factor homolog LCP, Host cell factor-like protein 1, HCLP-1, KLHDC2, HCA33

**Target/Specificity**

This KLDC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 293-320 amino acids from the C-terminal region of human KLDC2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KLDC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KLDC2 Antibody (C-term) - Protein Information**

**Name** KLHDC2 {ECO:0000303|PubMed:16964437, ECO:0000312|HGNC:HGNC:20231}

**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:[29775578](#), PubMed:[29779948](#), PubMed:[30526872](#), PubMed:[36805027](#), PubMed:[38177675](#)). 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:[29775578](#), PubMed:[29779948](#), PubMed:[30526872](#)). The CRL2(KLHDC2) complex specifically recognizes proteins with a diglycine (Gly-Gly) at the C-terminus, leading to their ubiquitination and degradation (PubMed:[29775578](#), PubMed:[29779948](#), PubMed:[30526872](#), PubMed:[36805027](#), PubMed:[38177675](#)). The CRL2(KLHDC2) complex mediates ubiquitination and degradation of truncated SELENOK and SELENOS selenoproteins produced by failed UGA/Sec decoding, which end with a diglycine (PubMed:[26138980](#), PubMed:[30526872](#), PubMed:[36805027](#)). The CRL2(KLHDC2) complex also recognizes proteolytically cleaved proteins ending with Gly-Gly, such as the N-terminal fragment of USP1, leading to their degradation (PubMed:[29775578](#), PubMed:[30526872](#), PubMed:[36805027](#), PubMed:[38177675](#)). May also act as an indirect repressor of CREB3-mediated transcription by interfering with CREB3- DNA-binding (PubMed:[11384994](#)).

### Cellular Location

Nucleus

### Tissue Location

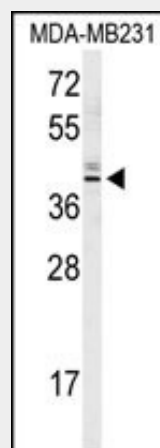
Widely expressed, with high levels in skeletal muscle, heart, pancreas and liver (PubMed:[11384994](#), PubMed:[16964437](#)) Undetectable in peripheral blood leukocytes (PubMed:[16964437](#))

### KLDC2 Antibody (C-term) - Protocols

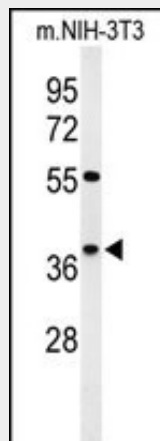
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KLDC2 Antibody (C-term) - Images



Western blot analysis of KLDC2 Antibody (C-term) (Cat. #AP4819b) in MDA-MB231 cell line lysates (35ug/lane). KLDC2 (arrow) was detected using the purified Pab.



Western blot analysis of KLDC2 Antibody (C-term) (Cat. #AP4819b) in mouse NIH-3T3 cell line lysates (35ug/lane). KLDC2 (arrow) was detected using the purified Pab.

#### **KLDC2 Antibody (C-term) - Background**

KLDC2 represses CREB3-mediated transcription by interfering with CREB3-DNA binding.

#### **KLDC2 Antibody (C-term) - References**

Chin, K.T., et al. Mol. Cell. Biochem. 296 (1-2), 109-119 (2007)

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007)

Wang, Y., et al. J. Immunol. 169(2):1102-1109(2002)