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KLDC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4819b

Specification

KLDC2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9Y2U9
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
E~~Use at an assay dependent concentration.

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

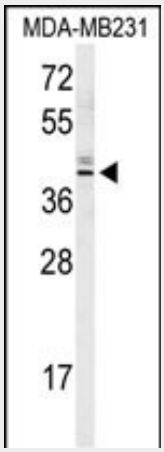
Tissue Location
Widely expressed, with high levels in skeletal muscle, heart, pancreas and liver (PubMed:11384994, PubMed:16964437) Undetectable in peripheral blood leukocytes (PubMed:16964437)

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 Cytomety
- Cell Culture

KLDC2 Antibody (C-term) - Images



Western blot analysis of KLDC2 Antibody (C-term) (Cat. #AP4819b) in MDA-MB231 cell line

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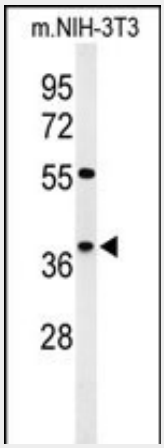
lysates (35ug/lane). KLDC2 (arrow) was detected using the purified Pab.



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)