

CUEDC1 Antibody

Catalog # ASC10776

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9NWM3
Other Accession	AAH56882 , 34785153
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42258
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CUEDC1 antibody can be used for detection of CUEDC1 by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	404093
Other Names	CUE domain-containing protein 1, CUEDC1
Target/Specificity	CUEDC1; CUEDC1 antibody will not cross-react with CUEDC2.
Reconstitution & Storage	CUEDC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CUEDC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CUEDC1
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Background

CUEDC1 Antibody: The CUE (coupling of ubiquitin conjugation to endoplasmic reticulum degradation) domain is an evolutionarily conserved, ~40 amino acid monoubiquitin-binding domain that mediates intramolecular monoubiquitylation. CUE domains are present in eukaryotic proteins that are involved in ubiquitination and protein trafficking pathways and may be required for ubiquitination of the proteins in which they are found. CUEDC1 (CUE domain-containing protein 1) is a 386 amino acid protein that contains one CUE domain, suggesting a possible role in protein trafficking and degradation pathways. Two isoforms

of CUEDC1 exist due to alternative splicing events. Defects in the gene encoding CUEDC1 may be associated with early stage cervical cancer, implicating CUEDC1 as a potential tumor marker.

References

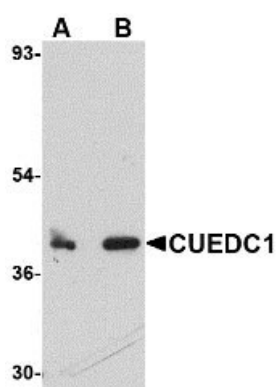
Shih SC, Prag G, Francis SA, et al. A ubiquitin-binding motif required for intramolecular monoubiquitylation, the CUE domain. EMBO J.2003; 22:1273-81.

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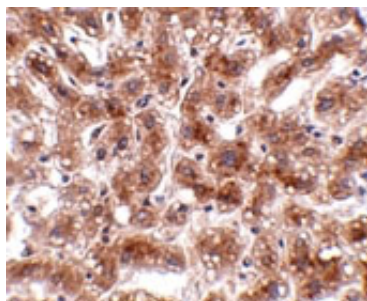
Prag G, Misra S, Jones EA, et al. Mechanism of ubiquitin recognition by the CUE domain of Vps9p. Cell2003; 113:609-20.

Kang RS, Daniels CM, Francis SA, et al. Solution structure of a CUE-ubiquitin complex reveals a conserved mode of ubiquitin binding. Cell2003; 113:621-30.

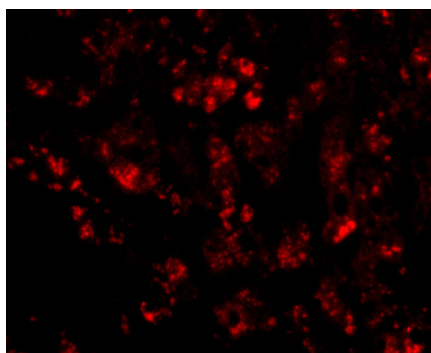
Images



Western blot analysis of CUEDC1 in rat liver tissue lysate with CUEDC1 antibody at (A) 0.5 and (B) 1 $\mu\text{g/mL}$.



Immunohistochemistry of CUEDC1 in human liver tissue with CUEDC1 antibody at 2 $\mu\text{g/mL}$.



Immunofluorescence of CUEDC1 in human liver tissue with CUEDC1 antibody at 20 $\mu\text{g/mL}$.

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