

UBE3C Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20457c

Specification

UBE3C Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q15386
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	123923
Antigen Region	549-578

UBE3C Antibody (Center) - Additional Information

Gene ID 9690

Other Names

Ubiquitin-protein ligase E3C, 632-, HectH2, UBE3C, KIAA0010, KIAA10

Target/Specificity

This UBE3C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 549-578 amino acids from the Central region of human UBE3C.

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

UBE3C Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

UBE3C Antibody (Center) - Protein Information

Name UBE3C {ECO:0000303|PubMed:17323924, ECO:0000312|HGNC:HGNC:16803}

Function E3 ubiquitin-protein ligase that specifically catalyzes 'Lys- 29'- and 'Lys-48'-linked polyubiquitin chains (PubMed:[11278995](#), PubMed:[12692129](#), PubMed:[16341092](#),

PubMed:[16601690](#), PubMed:[24158444](#), PubMed:[24811749](#), PubMed:[25752573](#), PubMed:[25752577](#), PubMed:[32039437](#), PubMed:[33637724](#), PubMed:[34239127](#)). Accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:[32039437](#), PubMed:[9575161](#)). Associates with the proteasome and promotes elongation of ubiquitin chains on substrates bound to the 26S proteasome (PubMed:[24158444](#), PubMed:[28396413](#), PubMed:[31375563](#)). Also catalyzes 'Lys-29'- and 'Lys-48'-linked ubiquitination of 26S proteasome subunit ADRM1/RPN13 in response to proteotoxic stress, impairing the ability of the proteasome to bind and degrade ubiquitin-conjugated proteins (PubMed:[24811749](#), PubMed:[31375563](#)). Acts as a negative regulator of autophagy by mediating 'Lys-29'- and 'Lys-48'- linked ubiquitination of PIK3C3/VPS34, promoting its degradation (PubMed:[33637724](#)). Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'- or 'Lys-48'-linked polyubiquitin chains; with some preference for 'Lys-48' linkages (PubMed:[11278995](#), PubMed:[16601690](#), PubMed:[25752577](#)). Acts as a negative regulator of type I interferon by mediating 'Lys-48'-linked ubiquitination of IRF3 and IRF7, leading to their degradation by the proteasome (PubMed:[21167755](#)). Catalyzes ubiquitination and degradation of CAND2 (PubMed:[12692129](#)).

Tissue Location

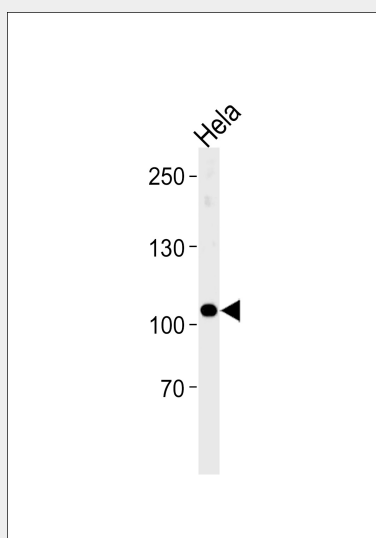
Highly expressed in skeletal muscle. Detected at much lower levels in kidney and pancreas.

UBE3C Antibody (Center) - Protocols

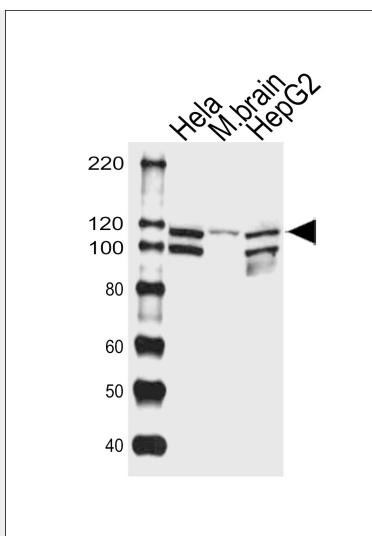
Provided below are standard protocols that you may find useful for product applications.

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

UBE3C Antibody (Center) - Images



UBE3C Antibody (Center) (Cat. #AP20457c) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the UBE3C antibody detected the UBE3C protein (arrow).



Western blot analysis of lysates from HeLa cell line, mouse brain tissue lysate, HepG2 cell line (from left to right), using UBE3C Antibody (Center) (Cat. #AP20457c). AP20457c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

UBE3C Antibody (Center) - Background

E3 ubiquitin-protein ligase that accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'-or 'Lys-48'-linked polyubiquitin chains. Has preference for 'Lys-48' linkages. It can target itself for ubiquitination in vitro and may promote its own degradation in vivo.

UBE3C Antibody (Center) - References

Nomura N., et al. DNA Res. 1:27-35(1994).
Hillier L.W., et al. Nature 424:157-164(2003).
Scherer S.W., et al. Science 300:767-772(2003).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
You J., et al. J. Biol. Chem. 276:19871-19878(2001).

UBE3C Antibody (Center) - Citations

- [UBE3C Facilitates the ER-Associated and Peripheral Degradation of Misfolded CFTR](#)