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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

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).

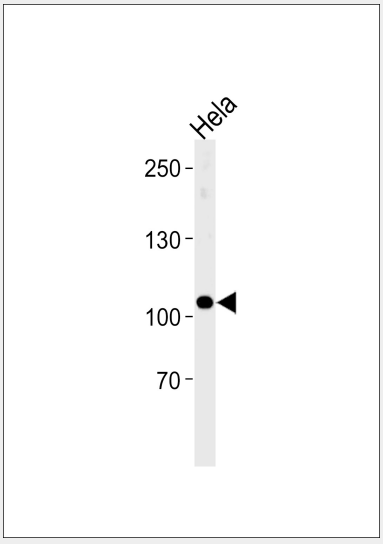
Tissue Location
Highly expressed in skeletal muscle. Detected at much lower levels in kidney and pancreas.

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 Cytomety
- 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).

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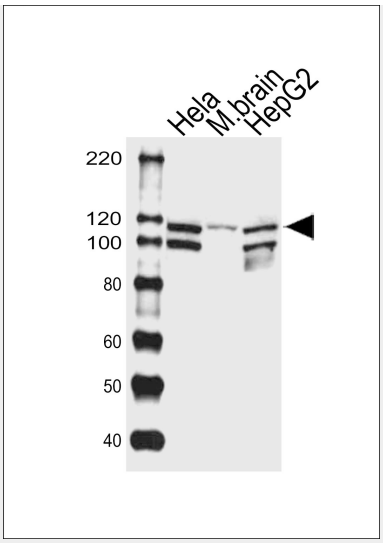

Western blot analysis of lysates from Hela cell line, mouse brain tissue lysate, HepG2 cell line (from left to right), using UBE3CAntibody(Center)(Cat. #AP20457c). AP20457c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates 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