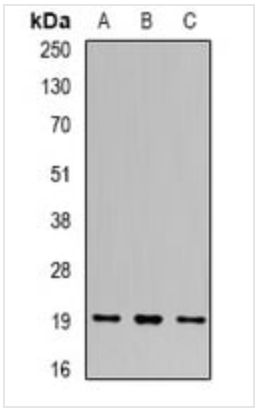
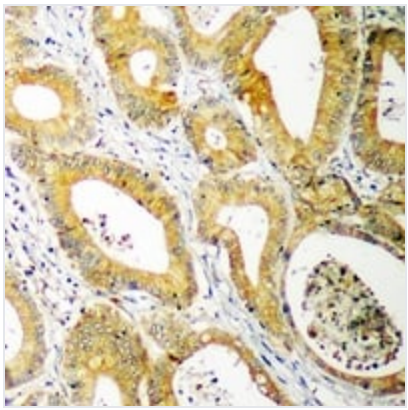
UBE2C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

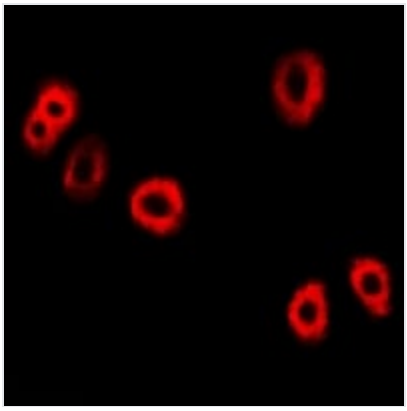
Product Name	UBE2C, Polyclonal Antibody
Full Product Name	Anti-UBE2C Antibody
Product Gene Name	anti-UBE2C antibody
Product Synonym Names	UBCH10; Ubiquitin-conjugating enzyme E2 C; UbcH10; Ubiquitin carrier protein C; Ubiquitin-protein ligase C
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of UBE2C protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	17,373 Da
OMIM	605574
3D Structure	ModBase 3D Structure for O00762
Immunogen	Recombinant full length protein of human UBE2C
Applications Tested/Suitable for anti-UBE2C antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-UBE2C antibody	WB: 1/500 - 1/2000; IHC: 1/50 - 1/200; IF/ICC: 1/50 - 1/200
Related Product Information for anti-UBE2C antibody	MBS8245644 is an antibody targeting UBE2C. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to UBE2C
Other Notes	Small volumes of anti-UBE2C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-UBE2C antibody
Western blot analysis of UBE2C expression in THP1 (A), SW620 (B), SKOV3 (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-UBE2C antibody
Immunohistochemical analysis of UBE2C staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-UBE2C antibody
Immunofluorescent analysis of UBE2C staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2C. It may not necessarily be applicable to this product.

NCBI GI #	528524529
NCBI GeneID	11065
NCBI Accession #	NP_001268670.1
UniProt Primary Accession #	O00762
UniProt Secondary Accession #	A6NP33; E1P5N7; G3XAB7
UniProt Related Accession #	O00762
GenBank Nucleotide #	NM_001281741.1
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 C isoform 6
NCBI Official Synonym Full Names	ubiquitin conjugating enzyme E2 C
NCBI Official Symbol	UBE2C

NCBI Official Synonym Symbols	UBCH10; dJ447F3.2
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 C
UniProt Synonym Protein Names	(E3-independent) E2 ubiquitin-conjugating enzyme C (EC:2.3.2.24
Protein Family	Probable ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2C
UniProt Synonym Gene Names	UBCH10
UniProt Entry Name	UBE2C_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 C
NCBI Summary for UBE2C	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, ubiquitin-conjugating enzymes, and ubiquitin-protein ligases. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein is required for the destruction of mitotic cyclins and for cell cycle progression, and may be involved in cancer progression. Multiple transcript variants encoding different isoforms have been found for this gene. Pseudogenes of this gene have been defined on chromosomes 4, 14, 15, 18, and 19. [provided by RefSeq, Aug 2013]
UniProt Comments for UBE2C	UBE2C: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys- 11'- and 'Lys-48'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by initiating 'Lys-11'-linked polyubiquitin chains on APC/C substrates, leading to the degradation of APC/C substrates by the proteasome and promoting mitotic exit. Belongs to the ubiquitin-conjugating enzyme family. Protein type: Cell cycle regulation; Ubiquitin conjugating system; Ubiquitin ligase; EC 6.3.2.19; Ligase Chromosomal Location of Human Ortholog: 20q13.12 Cellular Component: anaphase-promoting complex; cytoplasm; cytosol; nucleoplasm Molecular Function: ATP binding; protein binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity Biological Process: anaphase-promoting complex activation; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; cell division; cyclin catabolic process; exit from mitosis; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; positive regulation of exit from mitosis; positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; proteasomal ubiquitin-dependent protein catabolic process; protein ubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; regulation of mitotic metaphase/anaphase transition; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; ubiquitin-dependent protein catabolic process
Research Articles on UBE2C	**1.** the present study showed that miR-196a promoted cell proliferation by targeting UBE2C in breast cancer. Thus, miR-196a may be a potential oncogene in breast cancer and a promising therapeutic target in breast cancer treatment.
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