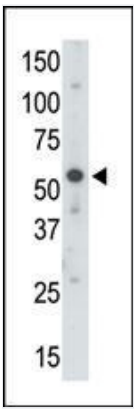
UBE1C Antibody – Rabbit Polyclonal

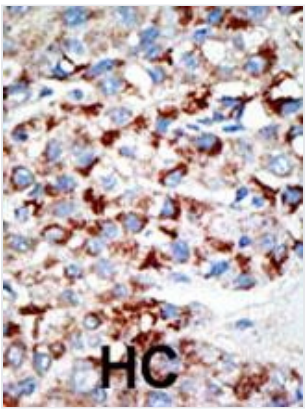
PRODUCT OVERVIEW

Product Name	UBE1C, Polyclonal Antibody
Full Product Name	UBE1C, CT (Ubiquitin-activating Enzyme E1C, NEDD8-activating Enzyme E1 Catalytic Subunit, Ubiquitin-like Modifier-activating Enzyme 3, Ubiquitin-activating Enzyme 3, NEDD8-activating Enzyme E1C, UBA3) (Azide free) (HRP)
Product Gene Name	anti-UBE1C antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human UBE1C. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	50,072 Da
OMIM	603172
3D Structure	ModBase 3D Structure for Q8TBC4
Immunogen	Synthetic peptide selected from the C-terminal region of human UBE1C (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-UBE1C antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-UBE1C antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-UBE1C antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-UBE1C antibody	MBS6504445 is an antibody targeting UBE1C. Also known as UBE1C, CT (Ubiquitin-activating Enzyme E1C, NEDD8-activating Enzyme E1 Catalytic Subunit, Ubiquitin-like Modifier-activating Enzyme 3, Ubiquitin-activating Enzyme 3, NEDD8-activating Enzyme E1C, UBA3) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-UBE1C antibody	1. Bohnsack, R.N., et al., J. Biol. Chem. 278(29):26823-26830 (2003). 2. Walden, H., et al., Nature 422(6929):330-334 (2003). 3. Gong, L., et al., J. Biol. Chem. 274(17):12036-12042 (1999). 4. Gubin, A.N., et al., Genomics 59(2):168-177 (1999). 5. Osaka, F., et al., Genes Dev. 12(15):2263-2268 (1998).

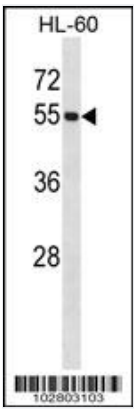
Other Notes	Small volumes of anti-UBE1C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



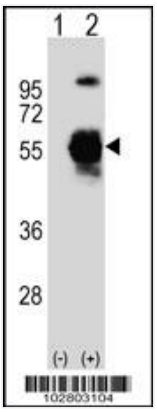
Western Blot (WB) of anti-UBE1C antibody
The anti-UBE1 C-term Pab is used in Western blot to detect UBE1 in mouse brain tissue lysate.



Immunohistochemistry (IHC) of anti-UBE1C antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Western Blot (WB) of anti-UBE1C antibody
UBE1C Antibody (S430) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the UBE1C antibody detected the UBE1C protein (arrow).



Western Blot (WB) of anti-UBE1C antibody
Western blot analysis of UBE1C (arrow) using rabbit polyclonal UBE1C Antibody (S430). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE1C gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE1C. It may not necessarily be applicable to this product.

NCBI GI #	38045942
NCBI GeneID	9039
NCBI Accession #	NP_003959
UniProt Primary Accession #	Q8TBC4
UniProt Secondary Accession #	O76088; Q9NTU3; A6NLB5; A8K027
UniProt Related Accession #	Q8TBC4
GenBank Nucleotide #	NM_003968
NCBI Official Full Name	NEDD8-activating enzyme E1 catalytic subunit isoform 1
NCBI Official Synonym Full Names	ubiquitin-like modifier activating enzyme 3
NCBI Official Symbol	UBA3

NCBI Official Synonym Symbols	NAE2; UBE1C; hUBA3
UniProt Protein Name	NEDD8-activating enzyme E1 catalytic subunit
UniProt Synonym Protein Names	NEDD8-activating enzyme E1C; Ubiquitin-activating enzyme E1C; Ubiquitin-like modifier-activating enzyme 3; Ubiquitin-activating enzyme 3
UniProt Gene Name	UBA3
UniProt Synonym Gene Names	UBE1C; Ubiquitin-activating enzyme 3
UniProt Entry Name	UBA3_HUMAN
NCBI Protein Information	NEDD8-activating enzyme E1 catalytic subunit; NEDD8-activating enzyme E1 subunit 2; NEDD8-activating enzyme E1C; Nedd8-activating enzyme hUba3; UBA3, ubiquitin-activating enzyme E1 homolog; ubiquitin-activating enzyme 3; ubiquitin-activating enzyme E1C (U
UniProt Comments for UBE1C	UBA3: Catalytic subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Down-regulates steroid receptor activity. Necessary for cell cycle progression. Belongs to the ubiquitin-activating E1 family. UBA3 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; EC 6.3.2.19; Ubiquitin ligase; Ligase; Ubiquitin conjugating system; Cell cycle regulation; EC 6.3.2.- Chromosomal Location of Human Ortholog: 3p14.1 Cellular Component: nucleus; cytosol Molecular Function: NEDD8 activating enzyme activity; protein binding; acid-amino acid ligase activity; protein heterodimerization activity; ATP binding Biological Process: protein neddylation; regulation of cell cycle; protein modification process; endomitotic cell cycle; proteolysis
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