UBE3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UBE3A, Polyclonal Antibody
Full Product Name	UBE3A Rabbit pAb
Product Gene Name	anti-UBE3A antibody
Product Synonym Names	AS; ANCR; E6-AP; HPVE6A; EPVE6AP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	110kDa
OMIM	105830. phenotype.
3D Structure	ModBase 3D Structure for Q05086
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 300-590 of human UBE3A (NP_570853.1).
Cellular Localization	Cytoplasm, Nucleus, Proteasome
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-UBE3A antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-UBE3A antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-UBE3A antibody	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B. Catalyzes the high-risk human papilloma virus E6-mediated ubiquitination of p53/TP53, contributing to the neoplastic progression of cells infected by these viruses. Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component ARNTL/BMAL1, leading to its proteasomal degradation (PubMed:24728990). Acts as transcriptional coactivator of progesterone receptor PGR upon progesterone hormone activation (PubMed:16772533). Synergizes with WBP2 in enhancing PGR activity (PubMed:16772533).
Other Notes	Small volumes of anti-UBE3A 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.
Searchable Terms for UBE3A purchase	MBS8544564 is an antibody targeting UBE3A. Also known as UBE3A Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE3A. It may not necessarily be applicable to this product.

NCBI GI #	19718766
NCBI GeneID	7337
NCBI Accession #	NP_000453.2
UniProt Primary Accession #	Q05086
UniProt Related Accession #	Q05086
GenBank Nucleotide #	NP_000453.2
NCBI Official Full Name	ubiquitin-protein ligase E3A isoform 2
NCBI Official Synonym Full Names	ubiquitin protein ligase E3A
NCBI Official Symbol	UBE3A
NCBI Official Synonym Symbols	AS; ANCR; E6-AP; HPVE6A; EPVE6AP
UniProt Protein Name	Ubiquitin-protein ligase E3A
UniProt Synonym Protein Names	E6AP ubiquitin-protein ligase; Oncogenic protein-associated protein E6-AP; Human papillomavirus E6-associated protein; Renal carcinoma antigen NY-REN-54
Protein Family	Ubiquitin-protein ligase
UniProt Gene Name	UBE3A
UniProt Synonym Gene Names	E6AP; EPVE6AP; HPVE6A
UniProt Entry Name	UBE3A_HUMAN
NCBI Protein Information	ubiquitin-protein ligase E3A
NCBI Summary for UBE3A	This gene encodes an E3 ubiquitin-protein ligase, part of the ubiquitin protein degradation system. This imprinted gene is maternally expressed in brain and biallelically expressed in other tissues. Maternally inherited deletion of this gene causes Angelman Syndrome, characterized by severe motor and intellectual retardation, ataxia, hypotonia, epilepsy, absence of speech, and characteristic facies. The protein also interacts with the E6 protein of human papillomavirus types 16 and 18, resulting in ubiquitination and proteolysis of tumor protein p53. Alternative splicing of this gene results in three transcript variants encoding three isoforms with different N-termini. Additional transcript variants have been described, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]
Research Articles on UBE3A	**1.** Mechanistic dissection further disclosed that RYBP directly binds to ubiquitin protein ligase E3A (UBE3A) to promote its ubiquitination and proteasomal degradation in an autoubiquitination-independent manner
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