

UBE3A Antibody
Rabbit mAb
Catalog # AP91530

Specification

UBE3A Antibody - Product Information

Application	WB
Primary Accession	Q05086
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Ubiquitin-protein ligase E3A; UBE3A; E6AP; EPVE6AP; HPVE6A;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	100688 Da

UBE3A Antibody - Additional Information

Dilution	WB~~1:1000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human UBE3A
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

UBE3A Antibody - Protein Information

Name UBE3A ([HGNC:12496](#))

Function

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 (PubMed:10373495, PubMed:16772533, PubMed:19204938, PubMed:19233847, PubMed:19233847)

[19325566](http://www.uniprot.org/citations/19325566), PubMed: [19591933](http://www.uniprot.org/citations/19591933), PubMed: [22645313](http://www.uniprot.org/citations/22645313), PubMed: [24273172](http://www.uniprot.org/citations/24273172), PubMed: [24728990](http://www.uniprot.org/citations/24728990), PubMed: [30020076](http://www.uniprot.org/citations/30020076)). Several substrates have been identified including the BMAL1, ARC, LAMTOR1, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B (PubMed: [10373495](http://www.uniprot.org/citations/10373495), PubMed: [19204938](http://www.uniprot.org/citations/19204938), PubMed: [19325566](http://www.uniprot.org/citations/19325566), PubMed: [19591933](http://www.uniprot.org/citations/19591933), PubMed: [22645313](http://www.uniprot.org/citations/22645313), PubMed: [24728990](http://www.uniprot.org/citations/24728990), PubMed: [30020076](http://www.uniprot.org/citations/30020076)). Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins (PubMed: [19233847](http://www.uniprot.org/citations/19233847)). 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 BMAL1, leading to its proteasomal degradation (PubMed: [24728990](http://www.uniprot.org/citations/24728990)). Acts as transcriptional coactivator of progesterone receptor PGR upon progesterone hormone activation (PubMed: [16772533](http://www.uniprot.org/citations/16772533)). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (By similarity). Required for synaptic remodeling in neurons by mediating ubiquitination and degradation of LAMTOR1, thereby limiting mTORC1 signaling and activity-dependent synaptic remodeling (By similarity). Synergizes with WBP2 in enhancing PGR activity (PubMed: [16772533](http://www.uniprot.org/citations/16772533)).

Cellular Location

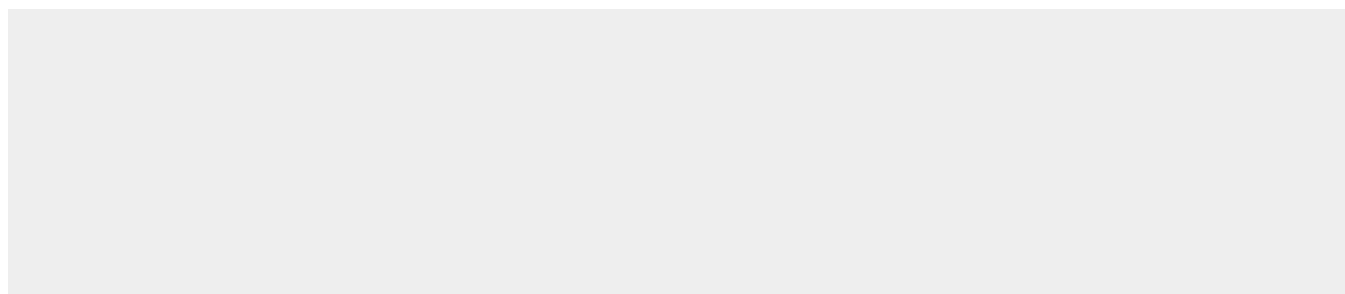
Cytoplasm {ECO:0000250|UniProtKB:O08759}. Nucleus {ECO:0000250|UniProtKB:O08759}

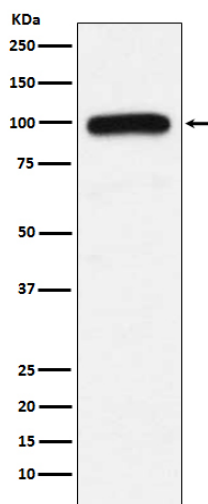
UBE3A Antibody - Protocols

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](#)

UBE3A Antibody - Images





Western blot analysis of UBE3A expression in K562 cell lysate.