

E6AP Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10567**Specification**

E6AP Antibody - Product Information

Application	WB, IP
Primary Accession	Q05086
Other Accession	NP_000453.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	100688

E6AP Antibody - Additional Information**Gene ID 7337**

Application & Usage	Western blotting (1:500 - 1:2500) and immunoprecipitation. However, the optimal concentrations should be determined individually. The antibody recognizes the E6AP of human and mouse origins. Reactivity to other species has not been tested
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Other Names

E6AP, HPVE6AP, EPVE6AP, Human papillomavirus E6-associated protein; UBE3A, Ubiquitin-protein ligase E3A; AS, Angelman Syndrome; ANCR

Target/Specificity

E6AP

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µl purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 1% BSA and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

E6AP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

E6AP 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](http://www.uniprot.org/citations/10373495), PubMed:[16772533](http://www.uniprot.org/citations/16772533), PubMed:[19204938](http://www.uniprot.org/citations/19204938), PubMed:[19233847](http://www.uniprot.org/citations/19233847), 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:[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}

E6AP 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](#)

E6AP Antibody - Images

E6AP Antibody - Background

E6AP is an E3 ubiquitin ligase. Inheritance of a mutant maternal copy of this gene results in Angelman syndrome (AS) which is characterized by severe mental retardation, seizures, ataxia, and EEG abnormalities. E6AP interacts with the type 16 and 18 human papillomavirus E6 oncoprotein which results in the targeting of p53 for degradation via the ubiquitin-proteasome system.