

# Rabbit anti-Human UBE3A Polyclonal Antibody | anti-UBE3A antibody

Anti-UBE3A Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA125403 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

## PRODUCT SYNONYMS

UBE3A; Polyclonal Antibody; Anti-UBE3A Antibody; Ubiquitin-protein ligase E3A; E6AP ubiquitin-protein ligase; HECT-type ubiquitin transferase E3A; Human papillomavirus E6-associated protein; Oncogenic protein-associated protein E6-AP; Renal carcinoma antigen NY-REN-54; E6AP; EPVE6AP; HPVE6A; anti-UBE3A antibody

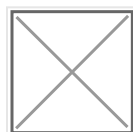
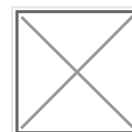
## PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                           |
| Reactivity                                      | Human                                                                                                                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                                                                                       |
| Isotype                                         | IgG                                                                                                                                                                                                              |
| Specificity                                     | No cross reactivity with other proteins.                                                                                                                                                                         |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                     |
| Form/Format                                     | Lyophilized<br>Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                         |
| Sequence Length                                 | 875                                                                                                                                                                                                              |
| Applicable Applications for anti-UBE3A antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                   |
| Immunogen                                       | E Coli-derived human UBE3A recombinant protein (Position: M1-E860).                                                                                                                                              |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                             |
| Preparation and Storage                         | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

## IMAGES


**WB (Western Blot)**

Figure 1. Western blot analysis of UBE3A using anti-UBE3A antibody.


**IHC (Immunohistochemistry)**

**IHC (Immunohistochemistry)**

**FCM/FACS (Flow Cytometry)**

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-UBE3A antibody | <p>Description: Rabbit IgG polyclonal antibody for UBE3A detection. Tested with WB, IHC-P, FCM, Direct ELISA in Human.</p> <p>Background: Ubiquitin-protein ligase E3A (UBE3A) also known as E6AP ubiquitin-protein ligase (E6AP) is an enzyme that in humans is encoded by the UBE3A gene. It is mapped to 15q11.2. 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.</p> |
| References                                          | <p>1. Abaied, L., Trabelsi, M., Chaabouni, M., Kharrat, M., Kraoua, L., M'rad, R., Tebib, N., Maazoul, F., Chaabouni, H. A novel UBE3A truncating mutation in large Tunisian Angelman syndrome pedigree. Am. J. Med. Genet. 152A: 141-146, 2010.</p> <p>2. Albrecht, U., Sutcliffe, J. S., Cattanach, B. M., Beechey, C. V., Armstrong, D., Eichele, G., Beaudet, A. L. Imprinted expression of the murine Angelman syndrome gene, Ube3a, in hippocampal and Purkinje neurons. Nature Genet. 17: 75-78, 1997.</p> <p>3. Camprubi, C., Guitart, M., Gabau, E., Coll, M. D., Villatoro, S., Oltra, S., Rosello, M., Ferrer, I., Monfort, S., Orellana, C., Martinez, F. Novel UBE3A mutations causing Angelman syndrome: different parental origin for single nucleotide changes and multiple nucleotide deletions or insertions. Am. J. Med. Genet. 149A: 343-348, 2009.</p>                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 19718766                               |
| NCBI GeneID                      | 7337                                   |
| NCBI Accession #                 | NP_000453.2                            |
| NCBI GenBank Nucleotide #        | NP_000453.2                            |
| UniProt Accession #              | Q05086                                 |
| 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       |
| NCBI Protein Information         | ubiquitin-protein ligase E3A           |
| UniProt Protein Name             | Ubiquitin-protein ligase E3A           |
| UniProt Gene Name                | UBE3A                                  |
| UniProt Synonym Gene Names       | E6AP; EPVE6AP; HPVE6A                  |
| UniProt Entry Name               | UBE3A_HUMAN                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.