

Mouse UBE3A Monoclonal Antibody | anti-UBE3A antibody

Anti-UBE3A Antibody (monoclonal, 3F13)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125905	Mouse	Human, Monkey	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

UBE3A; Monoclonal Antibody; Anti-UBE3A Antibody (monoclonal; 3F13); E6AP; EPVE6AP; HPVE6A; Ubiquitin-protein ligase E3A; EC 2. 3. 2. 26; 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; ubiquitin protein ligase E3A; anti-UBE3A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	3F13
Specificity	Mouse IgG monoclonal antibody for UBE3A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-UBE3A antibody	FCM/FACS (Flow Cytometry), 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.
Recommended Detection Systems	Recommended Detection Systems
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 at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U87 cells using anti-UBE3A antibody (AAA125905). Overlay histogram showing U87 cells stained with AAA125905 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- UBE3A Antibody (AAA125905, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of UBE3A using anti-UBE3A antibody (AAA125905). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human Raji whole cell lysates Lane 4: monkey COS-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with mouse anti- UBE3A antigen affinity purified monoclonal antibody (Catalog # AAA125905) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for UBE3A at approximately 100KD. The expected band size for UBE3A is at 100KD.

ADDITIONAL INFORMATION

Related Product Information for anti-UBE3A antibody	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.
References	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. 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. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19718766
NCBI GeneID	7337
UniProt Accession #	Q05086; P78355; Q93066; Q9UEP4; Q9UEP5; Q9UEP6; Q9UEP7; Q9UEP8; Q9UEP9; A8K8Z9
NCBI Official Full Name	ubiquitin-protein ligase E3A isoform 2 [Homo sapiens]
NCBI Official Synonym Full Names	ubiquitin protein ligase E3A
NCBI Official Symbol	UBE3A
NCBI Official Synonym Symbols	AS; ANCR; E6-AP; HPVE6A; EPVE6AP; FLJ26981; UBE3A
UniProt Protein Name	Ubiquitin-protein ligase E3A
UniProt Gene Name	UBE3A
UniProt Synonym Gene Names	E6AP; EPVE6AP; HPVE6A

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ube3a-antibody-clone-3f13-flow-cytometry-western-blot-elisa/125905>