[KD Validated] Anti-UBE3A Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M020429

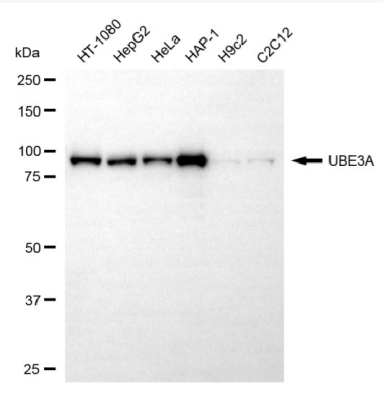
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:400~1:2,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Mouse
Clonality	Monoclonal
Clone No.	55K42K03
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human UBE3A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-UBE3A Mouse mAb [55K42K03] is for research use only and not for use in diagnostic or therapeutic procedures.

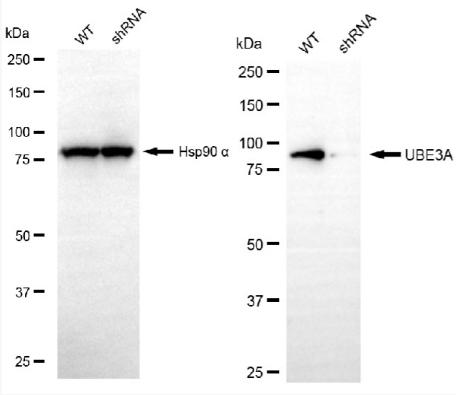
Protein Information

Synonyms	UBE3A; Ubiquitin Protein Ligase E3A; EPVE6AP; HPVE6A; E6-AP; ANCR; AS; Human Papilloma Virus E6-Associated Protein; Human Papillomavirus E6-Associated Protein; Oncogenic Protein-Associated Protein E6-AP; HECT-Type Ubiquitin Transferase E3A; Renal Carcinoma Antigen NY-REN-54; E6AP Ubiquitin-Protein Ligase; Ubiquitin-Protein Ligase E3A; FLJ26981; CTCL Tumor Antigen Se37-2; Angelman Syndrome; EC 2.3.2.26; PIX1; E6AP.
Calculated MW	Calculated MW: 101 kDa; Observed MW: 90 kDa
Uniprot ID	Q05086
Gene ID	7337
Background	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.

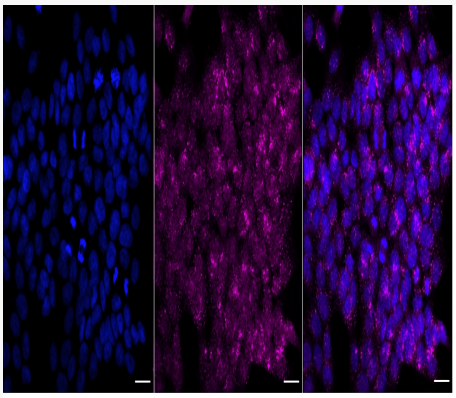
Validation Images



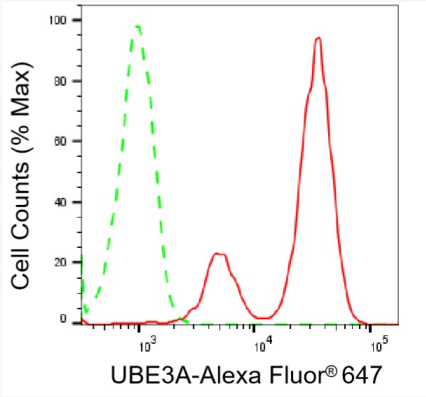
Western blotting analysis using UBE3A antibody (M020429). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with UBE3A antibody (M020429, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using UBE3A antibody (M020429). UBE3A expression in wild-type (WT) and UBE3A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with UBE3A antibody (M020429, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of HAP-1 cells with UBE3A antibody(M020429, 1:1,000) . Nuclei were stained blue with DAPI; UBE3A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of UBE3A expression in HAP-1 cells using UBE3A antibody (M020429, 1:2,000). Green, isotype control; red, UBE3A.