

# **Human E6AP/UBE3A Antibody**

Recombinant Monoclonal Mouse IgG<sub>1</sub> Clone # 1077332 Catalog Number: MAB11498

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human E6AP/UBE3A in Western blots.	
Source	Recombinant Monoclonal Mouse IgG <sub>1</sub> Clone # 1077332	
Purification	Protein A or G purified from cell culture supernatant	
Immunogen	Spodoptera frugiperda, Sf 21 (baculovirus)-derived human E6AP/UBE3A Met1-Leu875 Accession # Q05086	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

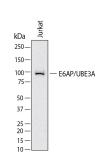
# **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

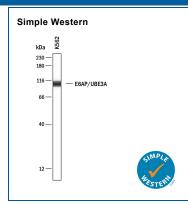
	Recommended Concentration	Sample
Western Blot	2 μg/mL	Jurkat human acute T cell leukemia cell line
Simple Western	20 μg/mL	K562 human chronix myelogenous leukemia cell line

#### DATA

#### Western Blot



Detection of Human E6AP/UBE3A by Western Blot. Western Blot shows lysates of Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human E6AP/UBE3A Monoclonal Antibody (Catalog # MAB11498) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for E6AP/UBE3A at approximately 98 kDa (as indicated). This experiment was conducted under reducing conditions and using



Detection of Human E6AP/UBE3A by Simple Western<sup>™</sup>. Simple Western shows Ivsates of K562 human chronic myelogenous leukemia cell line, loaded at 0.2 mg/ml. A specific band was detected for E6AP/UBE3A at approximately 106 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human E6AP/UBE3A Monoclonal Antibody (Catalog # MAB11498). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.

Western Blot Buffer Group 1.

Shipping Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

# Stability & Storage

# Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month. 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Ubiquitin-protein ligase E3A, also known as E6AP, is an E3 ligase that accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several key substrates for UBE3A have been identified, including BMAL1, the PML tumor suppressor, PGR, and p53/TP53 suggesting a role for UBE3A in regulation of the circadian clock, tumor regulation, transcriptional coactivation of the progesterone receptors, and regulation of neoplastic progression of cells infected by high-risk human papilloma virus (1-4). Defects in activity are linked to Angelman syndrome, a neurodevelopmental disorder, as well as autism spectrum disorders implicating a role for UBE3A in regulation of neurobiological functions (3, 5, 6).

## References:

- 1. Dhananjayan, S.C. et. al. (2006) Mol. Endocrinol. 20:2343.
- 2. Louria-Hayon, I. et. al. (2009) Cell Death Differ. 16:1156.
- 3. Martinez-Noel, G. et. al. (2012) Mol. Cell. Biol. 32:3095.
- 4. Gossan, N.C. et. al. (2014) Nucleic Acids Res. 42:5765.
- 5. Sadikovic, B. et. al. (2014) Hum. Mutat. 35:1407.
- 6. Khatri, N. and H-Y Man. (2019) Front. Mol. Neurosci. 12:109.

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