

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human His6-E6AP/UBE3A in Direct ELISA.
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 1077315
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>Spodoptera frugiperda</i> , Sf 21 (baculovirus)-derived human E6AP/UBE3A Met1-Leu875 Accession # Q05086
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

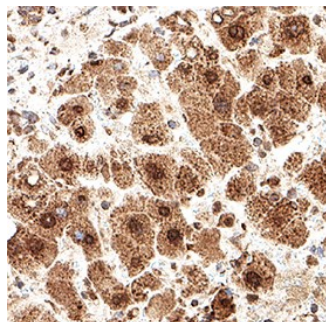
APPLICATIONS

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
Immunocytochemistry	3-25 µg/mL	fixed A172 human glioblastoma cell line
Immunohistochemistry	3-25 µg/mL	Immersion fixed paraffin-embedded sections of human liver

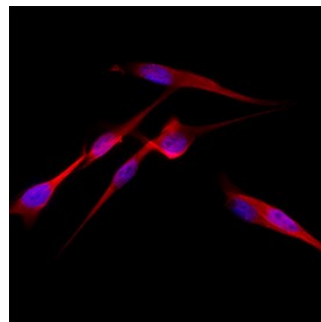
DATA

Immunohistochemistry



Detection of E6AP/UBE3A in Human Liver. E6AP/UBE3A was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human E6AP/UBE3A Monoclonal Antibody (Catalog # MAB11546) at 5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001) or the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunocytochemistry



Detection of E6AP/UBE3A in A172 Human Cell Line. E6AP/UBE3A was detected in fixed A172 human glioblastoma cell line using Mouse Anti-Human E6AP/UBE3A Monoclonal Antibody (Catalog # MAB11546) at 8 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the cytoplasm and nucleus. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
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. <ul style="list-style-type: none"> 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.