

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human E6AP/UBE3A in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 1077332
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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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).

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