

Technical Data Sheet

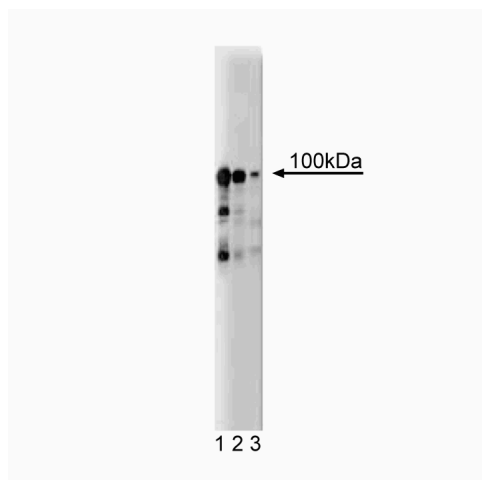
Purified Mouse Anti-UBE3A**Product Information**

Material Number:	611416
Alternate Name:	Ubiquitin Protein Ligase 3A
Size:	50 µg
Concentration:	250 µg/ml
Clone:	13/UBE3A
Immunogen:	Mouse UBE3A aa. 501-712
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse
Target MW:	100 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Protein ubiquitination is the end product of a multienzyme cascade that involves sequential thiol-ester bond interactions between ubiquitin and enzymes termed E1 ubiquitin-activating enzymes, E2 ubiquitin-conjugating enzymes, and E3 ubiquitin protein ligases. UBE3A (human papilloma virus E6-associated protein; E6-AP) is an E3 ubiquitin protein ligase that is linked to the neurological disorder Angelman syndrome. It mediates the interaction of human papilloma virus types 16 and 18 E6 proteins with p53, which targets p53 to the ubiquitination-proteasome degradation pathway. The C-terminal region of UBE3A contains a hect domain, which is found in many E3 ubiquitin protein ligases, while the central region contains an E6 binding region. UBE3A is expressed in the cytoplasm and nucleus of many tissues. The interaction of UBE3A with the progesterone receptor coactivates transcriptional activity of the receptor in the presence of bound hormone. Thus, UBE3A is an essential component of the ubiquitination degradation pathway and the nuclear hormone receptor signal transduction pathways.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of UBE3A on a EB-1 cell lysate (Human B lymphoblast; Burkitt's lymphoma; ATCC HTB-60). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti- UEB3A antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611546	EB1 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Matsuura T, Sutcliffe JS, Fang P. De novo truncating mutations in E6-AP ubiquitin-protein ligase gene (UBE3A) in Angelman syndrome. *Nat Genet.* 1997; 15(1):74-77.(Biology)
Nawaz Z, Lonard DM, Smith CL. The Angelman syndrome-associated protein, E6-AP, is a coactivator for the nuclear hormone receptor superfamily. *Mol Biol Cell.* 1999; 10(2):1182-1189.(Biology)