

## UBE3A / E6-AP Antibody

Mouse Monoclonal Antibody [Clone PCR-UBE3A-1A2]

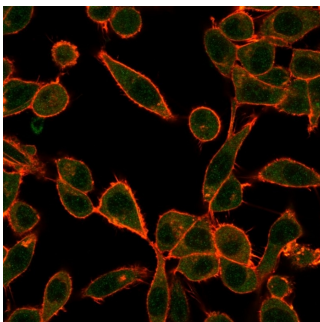
Catalog No	Format	Size
7337-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7337-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7337-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

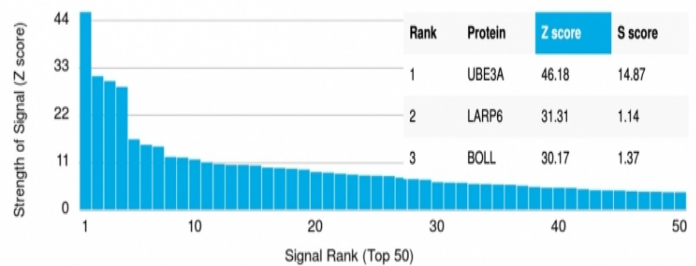
Product Details	
Clone	PCR-UBE3A-1A2
Gene Name	UBE3A
Immunogen	Recombinant full-length human UBE3A protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	100kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	HeLa cells.

\*Optimal dilution for a specific application should be determined.

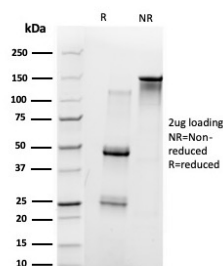
### Product Images for UBE3A / E6-AP Antibody



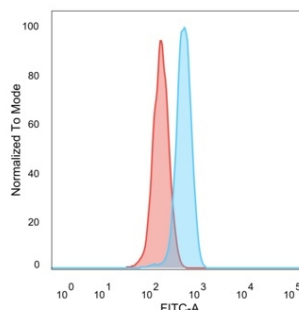
Immunofluorescent Analysis of PFA-fixed HeLa cells. UBE3A / E6-AP Mouse Monoclonal Antibody (PCR-UBE3A-1A2) followed by IgG-CF488 (green), counterstained with phalloidin.



Analysis of Protein Array containing more than 19,000 full-length human proteins using UBE3A / E6-AP Mouse Monoclonal Antibody (PCR-UBE3A-1A2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis. Purified UBE3A Mouse Monoclonal Antibody (PCRP-UBE2B-1A2). Confirmation of Purity and Integrity of Antibody.



Flow Cytometric Analysis of PFA-fixed HeLa cells. UBE3A / E6-AP Mouse Monoclonal Antibody (PCRP-UBE3A-1A2) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

### Specificity & Comments

E6-associating protein (E6-AP), also designated ubiquitin protein ligase E3A(UBE3A), is a component of the ubiquitin-mediated proteolytic pathway that selectively targets proteins for degradation by the 26S Proteasome. Ubiquitin(Ub) is directly conjugated to protein substrates by the transfer of Ub from an E2 ubiquitin conjugating enzyme to the target protein. This conjugation is facilitated by the enzymatic activity of E3 ubiquitin ligase family members such as E6-AP. Several substrates of E6-AP have been identified and include the tumor suppressor protein p53 and the mammalian homolog of Rad23, HHR23A. Previous studies have indicated that E6-AP associates with the human papillomavirus E6 oncogene, which forms a complex with p53 and thereby potentiates E6-AP mediated ubiquitination of p53. Genetic mutations that impair E6-AP activity result in the accumulation of p53 in the cytoplasm, and in many instances, these mutations are associated with the development of the rare neurodevelopmental disorder Angelman syndrome (AS), which is characterized by severe motor dysfunction and mental retardation.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Immunology, Nuclear Marker