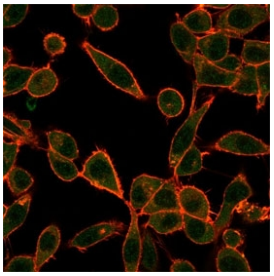
Ubiquitin-protein ligase E3A Antibody / UBE3A [clone PCRP-UBE3A-1A2] (V9248)

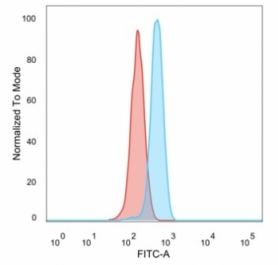
Catalog No.	Formulation	Size
V9248-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9248-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9248SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

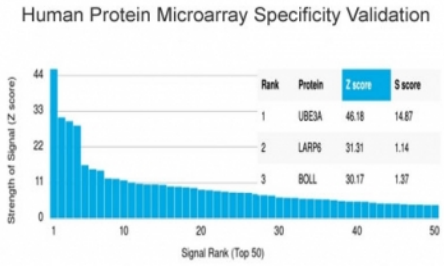
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	PCRP-UBE3A-1A2
Purity	Protein A/G affinity
UniProt	Q05086
Localization	Nucleus, Cytoplasm
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This Ubiquitin-protein ligase E3A antibody is available for research use only.



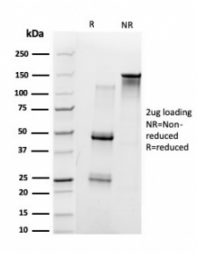
Immunofluorescent staining of PFA-fixed human HeLa cells using Ubiquitin-protein ligase E3A antibody (green, clone PCRP-UBE3A-1A2) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with Ubiquitin-protein ligase E3A antibody (blue, clone PCRP-UBE3A-1A2), and unstained cells (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ubiquitin-protein ligase E3A antibody (clone PCRP-UBE3A-1A2). These results demonstrate the foremost specificity of the PCRP-UBE3A-1A2 mAb. Z- and S-score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Ubiquitin-protein ligase E3A antibody (PCRP-UBE3A-1A2) as confirmation of integrity and purity.

Description

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 anE2 ubiquitin conjugating enzyme to the target protein. This conjugation is facilitated by the enzymatic activity of E3 ubiquitin ligase family members such asE6-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 papilloma virus E6 oncogene, which forms a complex with p53 and there by 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.

Application Notes

Optimal dilution of the Ubiquitin-protein ligase E3A antibody should be determined by the researcher.

Immunogen

Recombinant full-length human UBE3A protein was used as the immunogen for the Ubiquitin-protein ligase E3A antibody.

Storage

Aliquot the Ubiquitin-protein ligase E3A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.