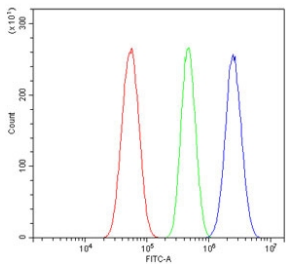
UBE3A Antibody / Ubiquitin-protein ligase E3A [clone 3F13] (RQ6275)

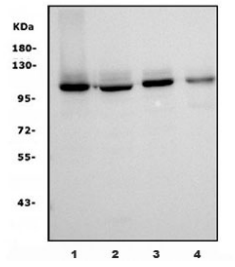
Catalog No.	Formulation	Size
RQ6275	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	3F13
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q05086
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This UBE3A antibody is available for research use only.



Flow cytometry testing of human U-87 MG cells with UBE3A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= UBE3A antibody.



Western blot testing of human 1) Jurkat, 2) HEK293, 3) Raji and 4) monkey COS-7 cell lysate with UBE3A antibody. Predicted molecular weight ~100 kDa.

Description

Ubiquitin-protein ligase E3A (UBE3A) also known as E6AP ubiquitin-protein ligase (E6AP) is an enzyme that in humans is encoded by the UBE3A gene. It is mapped to 15q11.2. This gene encodes an E3 ubiquitin-protein ligase, part of the ubiquitin protein degradation system. This imprinted gene is maternally expressed in brain and biallelically expressed in other tissues. Maternally inherited deletion of this gene causes Angelman Syndrome, characterized by severe motor and intellectual retardation, ataxia, hypotonia, epilepsy, absence of speech, and characteristic facies. The protein also interacts with the E6 protein of human papillomavirus types 16 and 18, resulting in ubiquitination and proteolysis of tumor protein p53. Alternative splicing of this gene results in three transcript variants encoding three isoforms with different N-termini. Additional transcript variants have been described, but their full length nature has not been determined.

Application Notes

Optimal dilution of the UBE3A antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids M1-E860) was used as the immunogen for the UBE3A antibody.

Storage

After reconstitution, the UBE3A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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