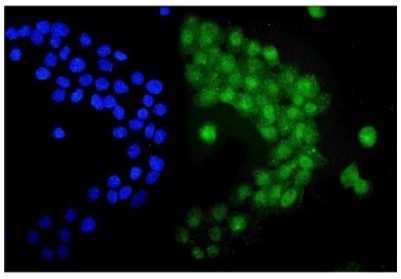
UBE1C Antibody / UBA3 (R32284)

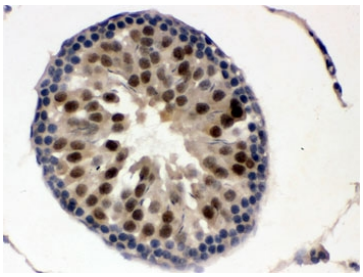
Catalog No.	Formulation	Size
R32284	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

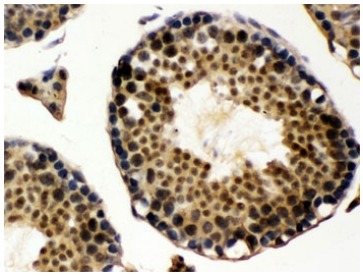
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q8TBC4
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This UBE1C antibody is available for research use only.



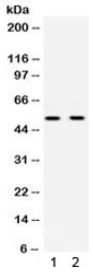
Immunofluorescent staining of FFPE human A431 cells with UBE1C antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



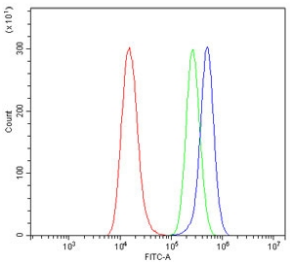
IHC testing of FFPE mouse testis with UBE1C antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



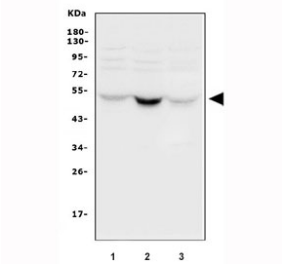
IHC testing of FFPE rat testis with UBE1C antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Western blot testing of 1) rat brain and 2) human HeLa lysate with UBE1C antibody. Expected molecular weight ~52 kDa.



Flow cytometry testing of human A549 cells with UBE1C antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= UBE1C antibody.



Western blot testing of 1) human HeLa 2) human HEK293 and 3) rat brain tissue lysate with UBE1C antibody. Expected molecular weight ~52 kDa.

Description

NEDD8-activating enzyme E1 catalytic subunit is a protein that in humans is encoded by the UBA3 gene. The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, an ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

Application Notes

Optimal dilution of the UBE1C antibody should be determined by the researcher.

Immunogen

Amino acids KNRTLYLQSVTSIEERTRPNLSKTLKELGLVDGQELAVAD of human UBE1C/UBA3 were used as the immunogen for the UBE1C antibody.

Storage

After reconstitution, the UBE1C 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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