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UBE2I Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1631a

Specification

UBE2I Antibody - Product Information

Application	**E, WB, IHC, IF, FC**
Primary Accession	P63279
Reactivity	**Human, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**18kDa KDa**

Description
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 E2 ubiquitin-conjugating enzyme family. Four alternatively spliced transcript variants encoding the same protein have been found for this gene.

Immunogen
Purified recombinant fragment of human UBE2I expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

UBE2I Antibody - Additional Information

Gene ID 7329

Other Names
SUMO-conjugating enzyme UBC9, 6.3.2.-, SUMO-protein ligase, Ubiquitin carrier protein 9, Ubiquitin carrier protein I, Ubiquitin-conjugating enzyme E2 I, Ubiquitin-protein ligase I, p18, UBE2I, UBC9, UBCE9

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
UBE2I Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

UBE2I Antibody - Protein Information

Name UBE2I

Synonyms UBC9, UBCE9

Function
Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3, SUMO4 and SUMO1P1/SUMO5 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2, CBX4 and ZNF451. Can catalyze the formation of poly-SUMO chains. Necessary for sumoylation of FOXL2 and KAT5. Essential for nuclear architecture and chromosome segregation. Sumoylates p53/TP53 at 'Lys-386'. Mediates sumoylation of ERCC6 which is essential for its transcription-coupled nucleotide excision repair activity (PubMed:26620705).

Cellular Location
Nucleus. Cytoplasm Cytoplasm, perinuclear region Note=Mainly nuclear (By similarity). In spermatocytes, localizes in synaptonemal complexes (PubMed:8610150). Recruited by BCL11A into the nuclear body (By similarity). {ECO:0000250|UniProtKB:P63280, ECO:0000269|PubMed:8610150}

Tissue Location
Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

UBE2I Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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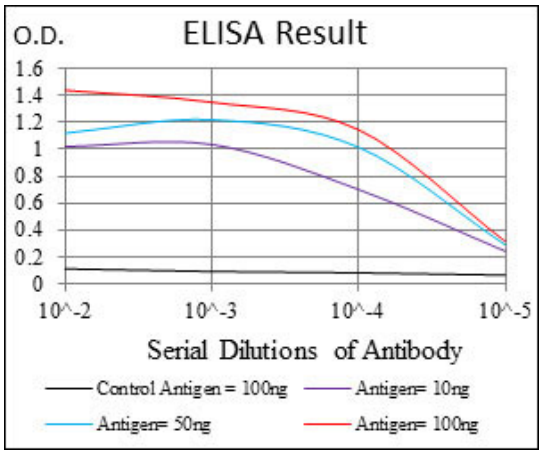

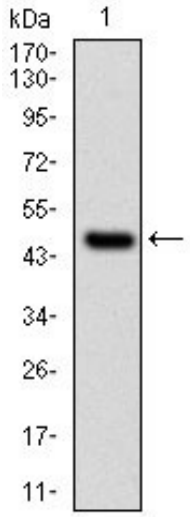

Figure 1: Western blot analysis using UBE2I mAb against human UBE2I (AA: 1-158) recombinant protein. (Expected MW is 45.3 kDa)

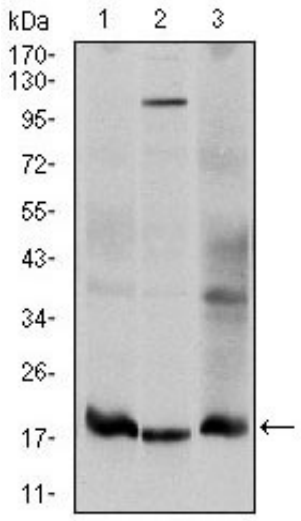

Figure 2: Western blot analysis using UBE2I mouse mAb against Hela (1), HepG2 (2), and Cos7 (3) cell lysate.

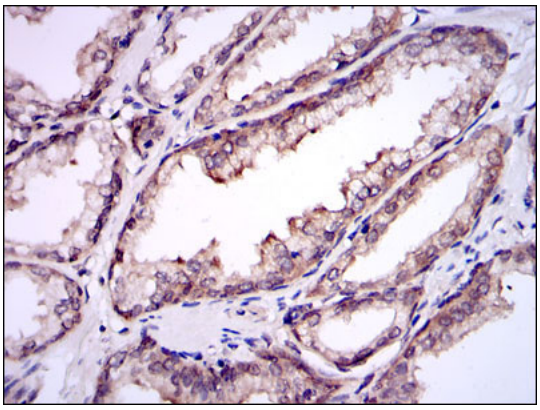

Figure 3: Immunohistochemical analysis of paraffin-embedded prostate tissues using UBE2I mouse mAb with DAB staining.

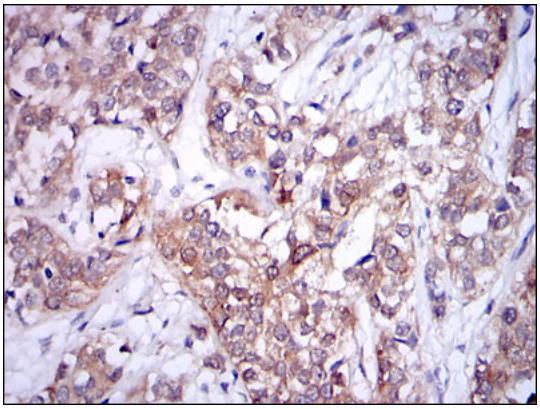

Figure 4: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using UBE2I mouse mAb with DAB staining.

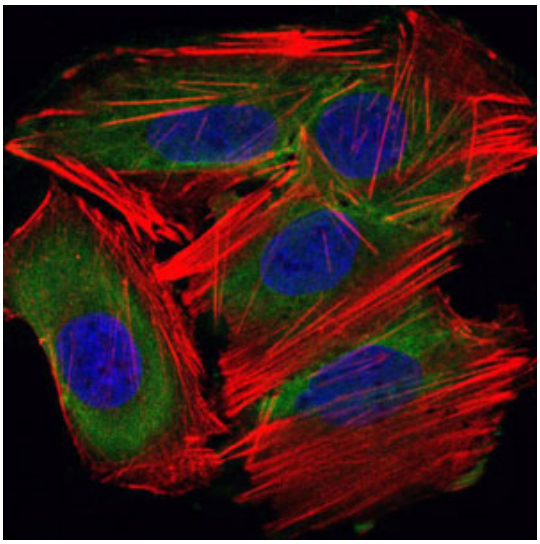

Figure 5: Immunofluorescence analysis of HepG2 cells using UBE2I mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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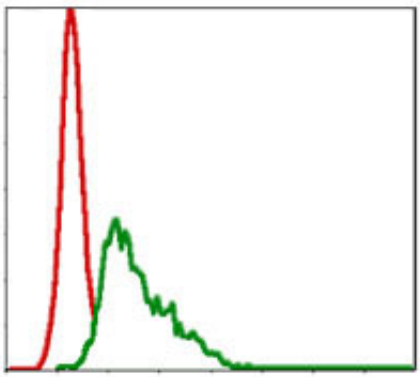

Figure 6: Flow cytometric analysis of HepG2 cells using UBE2I mouse mAb (green) and negative control (red).

UBE2I Antibody - References

1. Cell Signal. 2009 Dec;21(12):1935-44. 2. Nat Struct Mol Biol. 2009 Sep;16(9):945-52.