UBC9 Mouse mAb

CatalogNo: YM0642

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,FC,ELISA

MW
- 18kD (Calculated)

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
IF 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Monoclonal
Clone Number	10A8

Immunogen Information

Immunogen	Purified recombinant fragment of human UBC9 expressed in E. Coli.
Specificity	UBC9 Monoclonal Antibody detects endogenous levels of UBC9 protein.

Target Information

Gene name UBE2I UBC9 UBCE9

Protein Name SUMO-conjugating enzyme UBC9

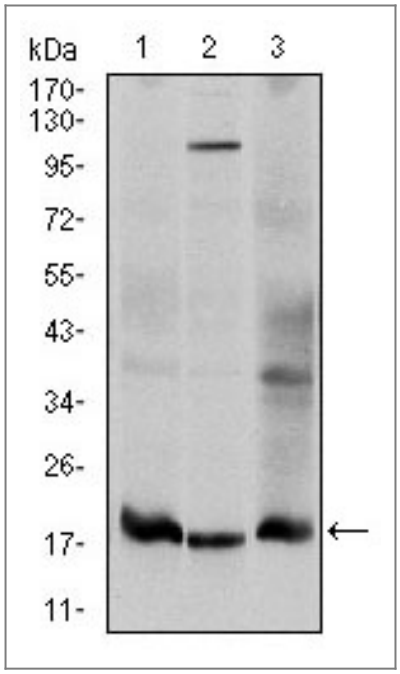
Organism	Gene ID	UniProt ID
Human	7329;	P63279;

Cellular Localization Nucleus . Cytoplasm . Cytoplasm, perinuclear region . Mainly nuclear (By similarity). In spermatocytes, localizes in synaptonemal complexes (PubMed:8610150). Recruited by BCL11A into the nuclear body (By similarity). .

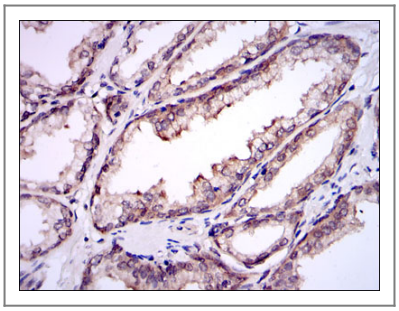
Tissue specificity Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

Function Catalytic activity:ATP + SUMO + protein lysine = AMP + diphosphate + protein N-SUMOyllysine.,Function:Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3 and SUMO4 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2 or CBX4. Essential for nuclear architecture and chromosome segregation.,pathway:Protein modification; protein sumoylation.,similarity:Belongs to the ubiquitin-conjugating enzyme family.,subunit:Interacts with HIPK1, HIPK2 and PPM1J (By similarity). Forms a tight complex with RANGAP1 and RANBP2. Interacts with SIAH1 and PARP. Interacts with various transcription factors such as TCF3, TFAP2A, TFAP2B, TFAP2C, AR, ETS1 and SOX4. Interacts with human adenovirus E1A and human herpesvirus 6 IE2. Interacts with RWDD3; the interaction enhances the sumoylation of a number of proteins such as HIF1A and I-kappa-B.,tissue specificity:Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.,

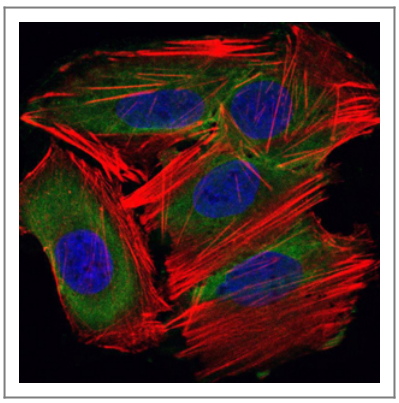
Validation Data



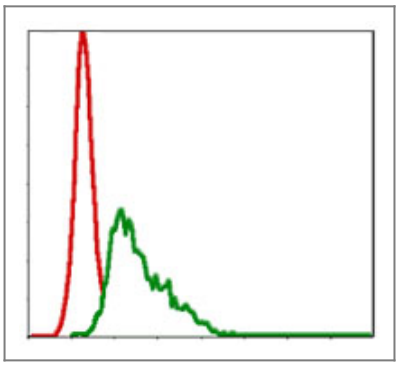
Western Blot analysis using UBC9 Monoclonal Antibody against HeLa (1), HepG2 (2), and Cos7 (3) cell lysate.



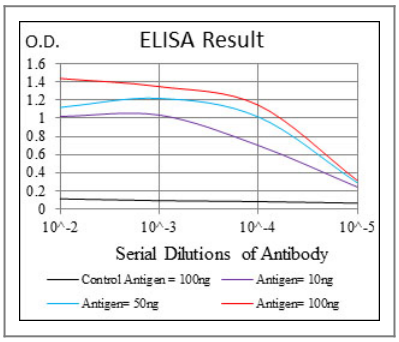
Immunohistochemistry analysis of paraffin-embedded prostate tissues with DAB staining using UBC9 Monoclonal Antibody.



Immunofluorescence analysis of HepG2 cells using UBC9 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HepG2 cells using UBC9 Monoclonal Antibody (green) and negative control (red).



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Please scan the QR code to access additional product information:
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