

UBC9 Mouse mAb

CatalogNo: YM0642

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IHC,IF,Flow Cyt,ELISA

MW

- 18kD (Calculated)

| 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.

| 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.

| Basic Information

Clonality Monoclonal

| Immunogen Information

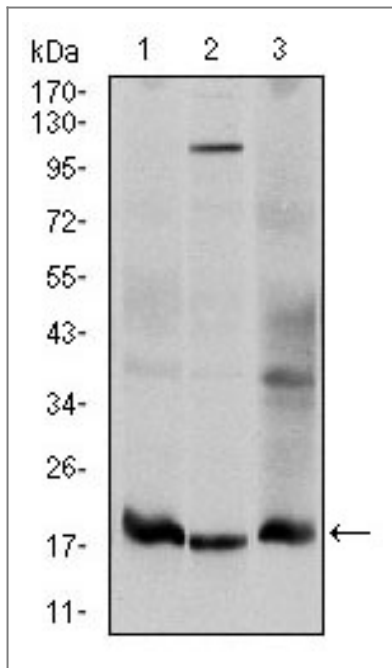
Immunogen Purified recombinant fragment of human UBC9 expressed in E. Coli.

Specificity UBC9 Monoclonal Antibody detects endogenous levels of UBC9 protein.

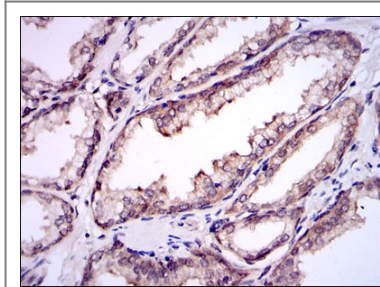
| Target Information

Gene name	UBE2I		
Protein Name	SUMO-conjugating enzyme UBC9		
	Organism	Gene ID	UniProt ID
	Human	7329 ;	P63279 ;
	Mouse		P63280 ;
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.,		

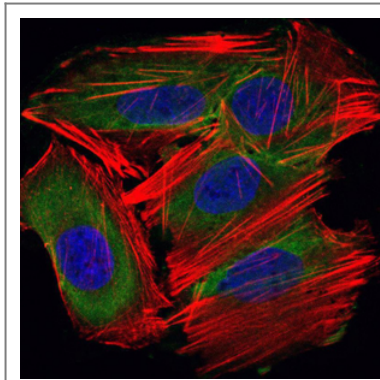
| Validation Data



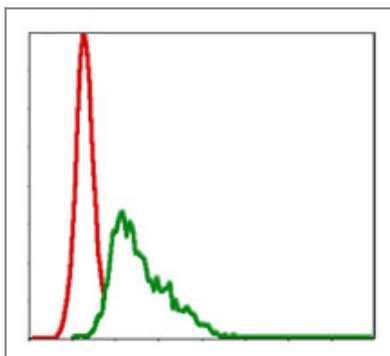
Western Blot analysis using UBC9 Monoclonal Antibody against HeLa (1), HepG2 (2), and Cos7 (3) cell lysate.



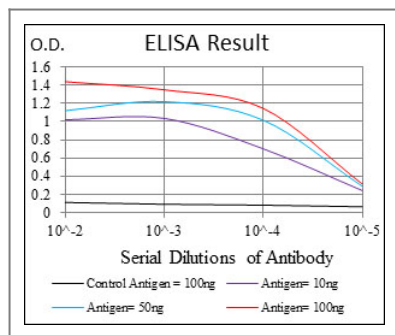
Immunohistochemistry analysis of paraffin-embedded prostate tissues with DAB staining using UBC9 Monoclonal Antibody.



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).



Contact information

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Please scan the QR code
 to access additional
 product information:
UBC9 Mouse mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)