

## UHRF1 Monoclonal Antibody

<b>Catalog No :</b>	YM1111
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IF
<b>Target :</b>	UHRF1
<b>Gene Name :</b>	UHRF1
<b>Protein Name :</b>	E3 ubiquitin-protein ligase UHRF1
<b>Human Gene Id :</b>	29128
<b>Human Swiss Prot No :</b>	Q96T88
<b>Mouse Swiss Prot No :</b>	Q8VDF2
<b>Immunogen :</b>	Purified recombinant human UHRF1 (N-terminus) protein fragments expressed in E.coli.
<b>Specificity :</b>	UHRF1 Monoclonal Antibody detects endogenous levels of UHRF1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	90kD

**Background :**

This gene encodes a member of a subfamily of RING-finger type E3 ubiquitin ligases. The protein binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. Its expression peaks at late G1 phase and continues during G2 and M phases of the cell cycle. It plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. It is regarded as a hub protein for the integration of epigenetic information. This gene is up-regulated in various cancers, and it is therefore considered to be a therapeutic target. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 12. [provided by RefSeq, Feb 2014],

**Function :**

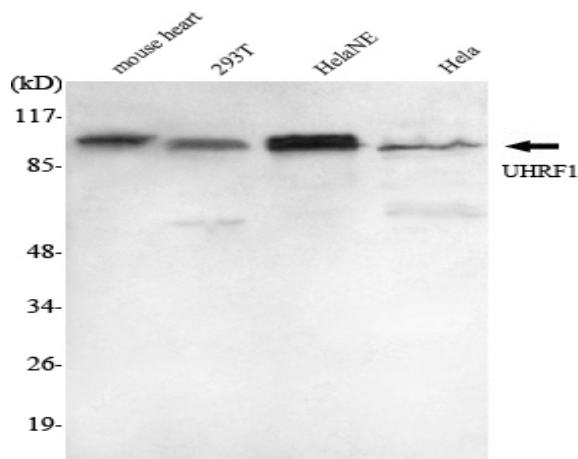
developmental stage:Expressed in fetal thymus, liver and kidney.,domain:The RING finger is required for ubiquitin ligase activity.,domain:The YDG domain mediates the interaction with histone H3.,function:Putative E3 ubiquitin-protein ligase. May participate in methylation-dependent transcriptional regulation. Binds to inverted 5'-CCAAT-3' box 2 in the TOP2A promoter, and activates TOP2A expression. Important for G1/S transition. May be involved in DNA repair and chromosomal stability.,induction:Up-regulated in proliferating cells, and down-regulated in quiescent cells. Down-regulated upon adriamycin-induced DNA damage, in a TP53/p53 and CDKN1A-dependent way. Induced by E2F1 transcription factor.,pathway:Protein modification; protein ubiquitination.,PTM:Phosphorylated on serine residues. Phosphorylation may enhance DNA-binding activity.,PTM:Ubiquitinated; which leads to proteasomal degrad

**Subcellular Location :**

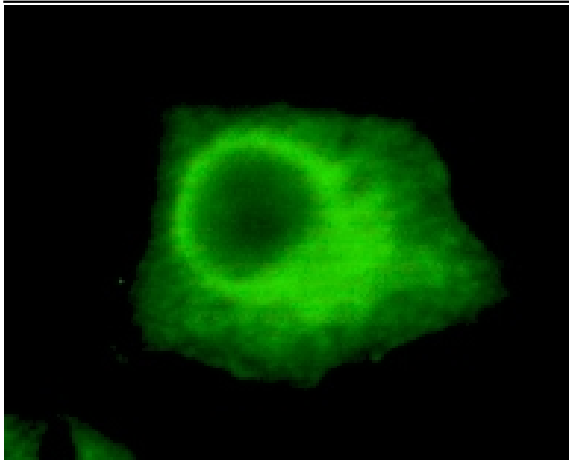
Nucleus . Localizes to replication foci. Enriched in pericentric heterochromatin. Also localizes to euchromatic regions.

**Expression :**

Expressed in thymus, bone marrow, testis, lung and heart. Overexpressed in breast cancer.

**Products Images**

Western Blot analysis using UHRF1 Monoclonal Antibody against mouse heart, 293T, HeLa cell lysate, HeLa nuclear extract.



Immunofluorescence analysis of HeLa cells using UHRF1 Monoclonal Antibody.