

UHRF1 Monoclonal Antibody

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

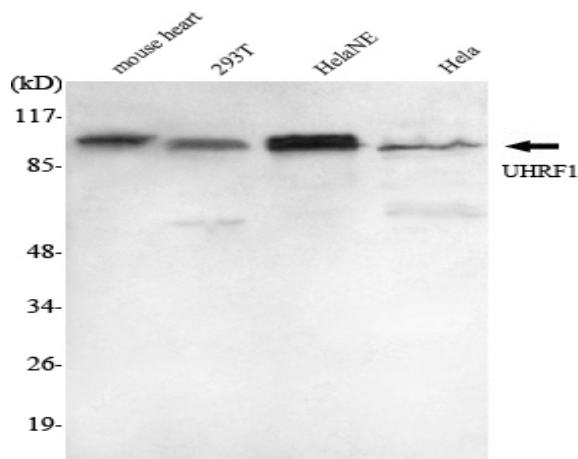
developmental stage:Expressed in fetal thymus, liver and kidney.,domain:The RING finger is required for ubiquitin ligase activity.,domain:The YDG domain mediates the interaction with histone H3.,function:Putative E3 ubiquitin-protein ligase. May participate in methylation-dependent transcriptional regulation. 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 :

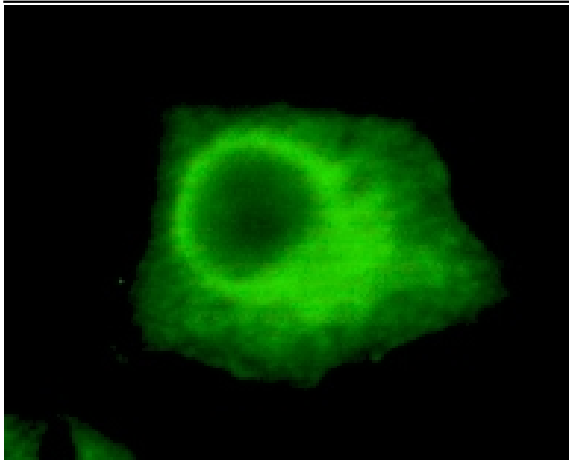
Nucleus . Localizes to replication foci. Enriched in pericentric heterochromatin. Also localizes to euchromatic regions.

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.