Product Data Sheet:
UHRF1 Rabbit Polyclonal Antibody

Cat. No:	ABN19615
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Synthesized peptide derived from the Internal region of human UHRF1.
Reactivity:	Human,Rat,Mouse
Applications:	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight:	89kDa
Purification:	Affinity purification
Synonyms:	UHRF1; ICBP90; NP95; RNF106; E3 ubiquitin-protein ligase UHRF1; Inverted CCAAT box-binding protein of 90 kDa; Nuclear protein 95; Nuclear zinc finger protein Np95; HuNp95; hNp95; RING finger protein 106;Transcription factor ICBP90; Ubiquitin-like PHD and RING finger domain-containing protein 1; hUHRF1; Ubiquitin-like-containing PHD and RING finger domains protein 1
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],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 degradation. Polyubiquitination may be stimulated by DNA damage.,similarity:Contains 1 PHD-type zinc finger.,similarity:Contains 1 ubiquitin-like domain.,similarity:Contains 1 YDG domain.,similarity:Contains 2 RING-type zinc fingers.,subunit:Interacts with histones H3, H1 and H2B (By similarity). Interacts with HDAC1, but not with HDAC2. Interacts with UHRF1BP1. Binds methylated CpG containing oligonucleotides.,tissue specificity:Expressed in thymus, bone marrow, testis, lung and heart. Overexpressed in breast cancer.,
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

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Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.