

## UHRF1 Rabbit mAb

Catalog No: #52036

Package Size: #52036-1 50ul #52036-2 100ul

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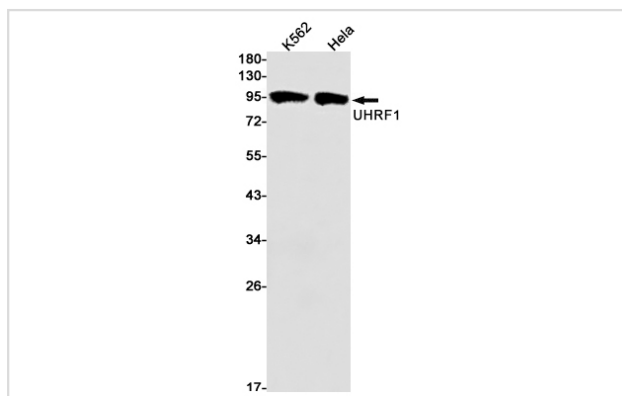
## Description

Product Name	UHRF1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S06-1C4
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Rat
Immunogen Description	Recombinant protein of human UHRF1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	Np95; hNP95; ICBP90; RNF106
Accession No.	Swiss-Prot:Q96T88GeneID:29128
Uniprot	Q96T88
GeneID	29128
Calculated MW	Calculated MW: 89 kDa; Observed MW: 97 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Application Details

WB: 1/1000;

## Images



Western blot detection of UHRF1 in K562,HeLa cell lysates using UHRF1 Rabbit mAb(1:1000 diluted).Predicted band size:89kDa.Observed band size:97kDa.

## Background

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Swiss-Prot Acc.Q96T88. Multidomain protein that acts as a key epigenetic regulator by bridging DNA methylation and chromatin modification. Specifically recognizes and binds hemimethylated DNA at replication forks via its YDG domain and recruits DNMT1 methyltransferase to ensure faithful propagation of the DNA methylation patterns through DNA replication. In addition to its role in maintenance of DNA methylation, also plays a key role in chromatin modification: through its tudor-like regions and PHD-type zinc fingers, specifically recognizes and binds histone H3 trimethylated at 'Lys-9' (H3K9me3) and unmethylated at 'Arg-2' (H3R2me0), respectively, and recruits chromatin proteins. Enriched in pericentric heterochromatin where it recruits different chromatin modifiers required for this chromatin replication. Also localizes to euchromatic regions where it negatively regulates transcription possibly by impacting DNA methylation and histone modifications. Has E3 ubiquitin-protein ligase activity by mediating the ubiquitination of target proteins such as histone H3 and PML. It is still unclear how E3 ubiquitin-protein ligase activity is related to its role in chromatin in vivo. Plays a role in DNA repair by cooperating with UHRF1 to ensure recruitment of FANCD2 to interstrand cross-links (ICLs) leading to FANCD2 activation.

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Note: This product is for in vitro research use only