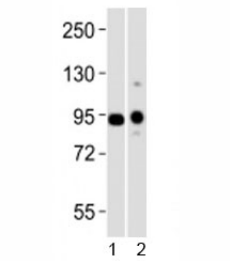
Uhrf1 Antibody (F53188)

Catalog No.	Formulation	Size
F53188-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53188-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8VDF2
Applications	Western blot: 1:1000-2000
Limitations	This Uhrf1 antibody is available for research use only.



Western blot testing of Uhrf1 antibody at 1:1000 dilution + 1) mouse heart and 2) mouse thymus lysate. Predicted/observed molecular weight: ~91/91-106kDa.

Description

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. May be involved in DNA repair.

Application Notes

Titration of the Uhrf1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This mouse Uhrf1 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 596-628 amino acids from the C-terminal region of mouse Uhrf1.

Storage

Aliquot the Uhrf1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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