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UHRF1 (vPair™) Antibodies

Cat#: R0434-vp

Lot#: Refer to vial

Predicted | Observed M.W.: 90 kDa

Uniprot ID: Q96T88

Application: WB

Quantity: 50 ul UHRF1 (M) (R0434-2) Rabbit Polyclonal Antibody &

50 ul UHRF1 (C) (R0434-3) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

E3 ubiquitin-protein ligase UHRF1 is a multidomain protein that acts as a key epigenetic regulator by bridging DNA methylation and chromatin modification. UHRF1 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, UHRF1 also plays a key role in chromatin modification: through its tudor-like regions and PHD-type zinc fingers, UHRF1 specifically recognizes and binds histone H3 trimethylated at 'Lys-9' (H3K9me3) and unmethylated at 'Arg-2' (H3R2me0), respectively, and recruits chromatin proteins.

Other Names:

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, ICBP90, NP95, RNF106

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing either the middle region [UHRF1 (M) (R0434-2)] or the C-terminal region [UHRF1 (C) (R0434-3)] of human UHRF1. Antibodies were purified by affinity purification using immunogen.

**For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301**

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

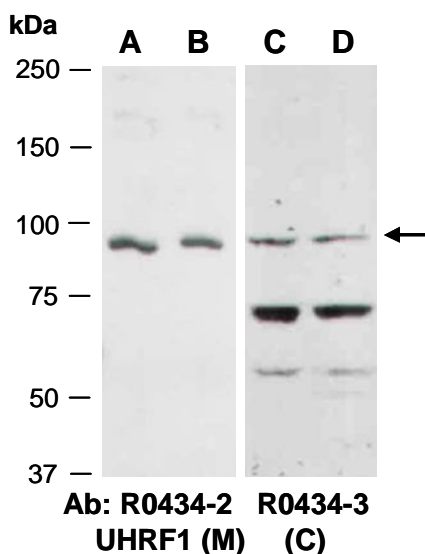


Fig 1. Western blot of total cell extracts from (A, C) human HeLa, (B, D) human Jurkat; using 2 independent Abs against 2 distinct regions of human UHRF1 at RT for 2 h.