

Product datasheet

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ARG53983 anti-UHRF1 antibody (N-term)

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes UHRF1

Tested Reactivity Hu, Ms
Tested Application WB

Host Mouse

Clonality Monoclonal

Isotype IgG2b
Target Name UHRF1
Species Human

Immunogen Purified recombinant human UHRF1 protein fragments expressed in E.coil.

Conjugation Un-conjugated

Alternate Names Nuclear zinc finger protein Np95; HuNp95; EC 6.3.2.-; hUHRF1; RING finger protein 106; hNp95;

Ubiquitin-like PHD and RING finger domain-containing protein 1; Nuclear protein 95; ICBP90; Transcription factor ICBP90; RNF106; Np95; Inverted CCAAT box-binding protein of 90 kDa; Ubiquitin-like-containing PHD and RING finger domains protein 1; huNp95; E3 ubiquitin-protein ligase UHRF1;

hNP95

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	90 kDa	

Properties

Form Liquid

Purification Affinity purified

Buffer 0.1M Tris-Glycine (pH 7.4), 150 mM NaCl, 0.2% Sodium azide and 50% Glycerol

Preservative 0.2% Sodium azide

Stabilizer 50% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Database links GeneID: 18140 Mouse

GenelD: 29128 Human

Swiss-port # Q8VDF2 Mouse

Swiss-port # Q96T88 Human

Gene Symbol UHRF1

Gene Full Name ubiquitin-like with PHD and ring finger domains 1

Background

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.

Function 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.

[UniProt]

Research Area Gene Regulation antibody

Calculated Mw 90 kDa

PTM Phosphorylation at Ser-298 of the linker region decreases the binding to H3K9me3. Phosphorylation at

Ser-639 by CDK1 during M phase impairs interaction with USP7, preventing deubiquitination and

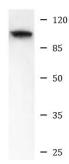
leading to degradation by the proteasome.

Ubiquitinated; which leads to proteasomal degradation. Autoubiquitinated; interaction with USP7 leads to deubiquitination and prevents degradation. Ubiquitination and degradation takes place during M

phase, when phosphorylation at Ser-639 prevents intereaction with USP7 and subsequent

deubiquitination. Polyubiquitination may be stimulated by DNA damage.

Cellular Localization Nucleus



Mouse heart

ARG53983 anti-UHRF1 antibody (N-term) WB image

Western blot: Mouse heart lysate stained with ARG53983 anti-UHRF1 antibody (N-term) at 1:1000 dilution.