

UHRF1 Antibody

Rabbit Polyclonal Antibody

Catalog # ABV11137

Specification

UHRF1 Antibody - Product Information

Application	WB
Primary Accession	Q96T88
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89814

UHRF1 Antibody - Additional Information

Gene ID 29128

Positive Control	Western Blot: Various cell lysates
Application & Usage	Western blot: 1:500 - 1:2000, IHC: 1:50 - 1:200, IF: 1:20 - 1:50, IP: 1:20 - 1:50, CHIP: 1:20 - 1:50. However, the optimal conditions should be determined individually.

Other Names

FLJ21925, ICBP90, MGC138707, Np95, RNF106, hNP95

Target/Specificity

UHRF1

Antibody Form

Liquid

Appearance

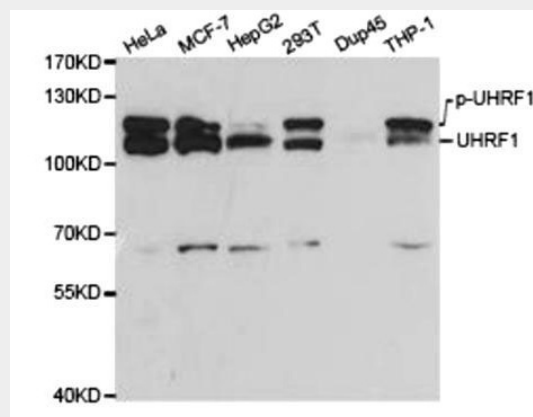
Colorless liquid

Formulation

100 µg of antibody in 100 µl PBS containing 0.02% sodium azide, 50% glycerol, pH 7.3

Handling

The antibody solution should be gently



WB of various cell extracts with UHRF1 pAb.

UHRF1 Antibody - Background

UHRF1, also named as ICBP90, NP95 and RNF106, is a putative E3 ubiquitin protein ligase. It may participate in methylation dependent transcriptional regulation. UHRF1 binds to inverted 5'CCAAT3' box 2 in the TOP2A promoter, and activates TOP2A expression. It is important for G1/S transition and may be involved in DNA repair and chromosomal stability. UHRF1's ability to repress its direct target gene expression is dependent on PHD (UHRF1) binding to unmodified H3R2.

mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

UHRF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

UHRF1 Antibody - Protein Information

Name UHRF1

Synonyms ICBP90, NP95, RNF106

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.

Cellular Location

Nucleus

{ECO:0000255|PROSITE-ProRule:PRU00358,
ECO:0000269|PubMed:10646863,

ECO:0000269|PubMed:17673620,
ECO:0000269|PubMed:17967883,
ECO:0000269|PubMed:19056828,
ECO:0000269|PubMed:21777816}.

Note=Localizes to replication foci Enriched
in pericentric heterochromatin. Also
localizes to euchromatic regions

Tissue Location

Expressed in thymus, bone marrow, testis,
lung and heart. Overexpressed in breast
cancer.

UHRF1 Antibody - Protocols

Provided below are standard protocols that you
may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)