

UHRF2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11138**Specification**

UHRF2 Antibody - Product Information

Application	WB
Primary Accession	Q96PU4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89985

UHRF2 Antibody - Additional Information**Gene ID** 115426Positive Control
Application & Usage**Western Blot: Various cell lysates**
Western blot: 1:500 - 1:2000, IHC: 1:50 - 1:200, IF: 1:20 - 1:50.**Other Names**
NIRF, URF2, RNF107, RP11472F14.2**Target/Specificity**
UHRF2**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 mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**
UHRF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**UHRF2 Antibody - Protein Information**

Name UHRF2**Synonyms** NIRF, RNF107**Function**

E3 ubiquitin ligase that plays important roles in DNA methylation, histone modifications, cell cycle and DNA repair (PubMed:15178429, PubMed:29506131, PubMed:27743347, PubMed:23404503). Acts as a specific reader for 5-hydroxymethylcytosine (5hmC) and thereby recruits various substrates to these sites to ubiquitinate them (PubMed:27129234, PubMed:24813944). This activity also allows the maintenance of 5mC levels at specific genomic loci and regulates neuron-related gene expression (By similarity). Participates in cell cycle regulation by ubiquitinating cyclins CCND1 and CCNE1 and thereby inducing G1 arrest (PubMed:15178429, PubMed:15361834, PubMed:21952639). Ubiquitinates also PCNP leading to its degradation by the proteasome (PubMed:14741369, PubMed:12176013). Plays an active role in DNA damage repair by ubiquitinating p21/CDKN1A leading to its proteasomal degradation (PubMed:29923055). Promotes also DNA repair by acting as an interstrand cross-links (ICLs) sensor. Mechanistically, cooperates with UHRF1 to ensure recruitment of FANCD2 to ICLs, leading to FANCD2 monoubiquitination and subsequent activation (PubMed:30335751). Contributes to UV-induced DNA damage response by physically interacting with ATR in response to irradiation, thereby promoting ATR activation (PubMed:33848395).

Cellular Location

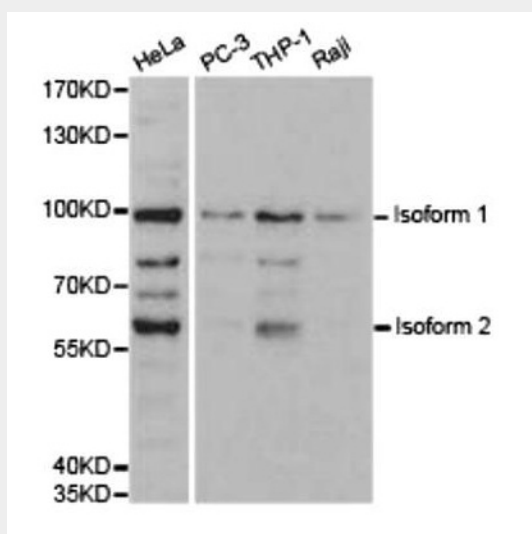
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00358, ECO:0000269|PubMed:12176013, ECO:0000269|PubMed:23404503, ECO:0000269|PubMed:27129234, ECO:0000269|PubMed:27743347, ECO:0000269|PubMed:29923055, ECO:0000269|PubMed:30335751}. Chromosome. Note=Enriched at genomic loci that are enriched for 5-hydroxymethylcytosine (5hmC)

UHRF2 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](#)

UHRF2 Antibody - Images



WB of various cell extracts with UHRF2 pAb.

UHRF2 Antibody - Background

This gene encodes a nuclear protein which is involved in cell cycle regulation. The encoded protein is a ubiquitin ligase capable of ubiquitinating PCNP (PESTcontaining nuclear protein), and together they may play a role in tumorigenesis. The encoded protein contains an NIRF_N domain, a PHD finger, a set and ring associated (SRA) domain, and a RING finger domain and several of these domains have been shown to be essential for the regulation of cell proliferation. This protein may also have a role in intranuclear degradation of polyglutamine aggregates. Alternative splicing results in multiple transcript variants, some of which are nonprotein coding. [Provided by RefSeq, Feb 2012].