

# UHRF2 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10728

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">Q96PU4</a>
<b>Other Accession</b>	<a href="#">NM_152896</a> , <a href="#">NP_690856</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
<b>Predicted</b>	Human, Mouse, Dog, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	89985

## Additional Information

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<b>Gene ID</b>	115426
<b>Alias Symbol</b> <b>Other Names</b>	NIRF, URF2, RNF107, RP11-472F14.2 E3 ubiquitin-protein ligase UHRF2, 6.3.2.-, Np95/ICBP90-like RING finger protein, Np95-like RING finger protein, Nuclear protein 97, Nuclear zinc finger protein Np97, RING finger protein 107, Ubiquitin-like PHD and RING finger domain-containing protein 2, Ubiquitin-like-containing PHD and RING finger domains protein 2, UHRF2, NIRF, RNF107
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 ul of distilled water. Final anti-UHRF2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	UHRF2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	UHRF2
<b>Synonyms</b>	NIRF, RNF107
<b>Function</b>	E3 ubiquitin ligase that plays important roles in DNA methylation, histone modifications, cell cycle and DNA repair (PubMed: <a href="#">15178429</a> , PubMed: <a href="#">23404503</a> , PubMed: <a href="#">27743347</a> , PubMed: <a href="#">29506131</a> ). Acts as a specific reader for 5-hydroxymethylcytosine (5hmC) and thereby recruits various substrates to these sites to ubiquitinate them (PubMed: <a href="#">24813944</a> ,

PubMed:[27129234](#)). 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](#)). Also ubiquitinates PCNP leading to its degradation by the proteasome (PubMed:[12176013](#), PubMed:[14741369](#)). Plays an active role in DNA damage repair by ubiquitinating p21/CDKN1A leading to its proteasomal degradation (PubMed:[29923055](#)). Also promotes 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](#)).

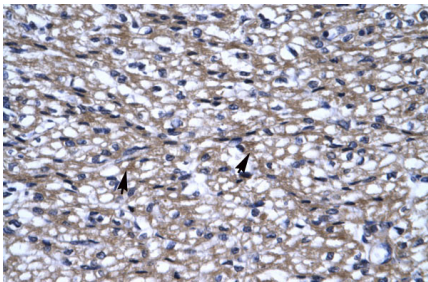
## Cellular Location

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)

## References

Li,Y., et al., (2004) Biochem. Biophys. Res. Commun. 319 (2), 464-468  
Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

## Images



Human Heart



WB Suggested Anti-UHRF2 Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:62500  
Positive Control: Jurkat cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.