

UHRF2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10728**Specification**

UHRF2 antibody - N-terminal region - Product Information

Application	WB, IHC
Primary Accession	O96PU4
Other Accession	NM_152896 , NP_690856
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog
Predicted Host	Human, Mouse, Horse, Bovine, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 90kDa KDa

UHRF2 antibody - N-terminal region - Additional Information**Gene ID** 115426**Alias Symbol** NIRF, URF2, RNF107, RP11-472F14.2**Other Names**

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

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

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.

Precautions

UHRF2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

UHRF2 antibody - N-terminal region - 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:<a href="http://www.uniprot.org/citations/23404503"

target="_blank">23404503, PubMed:27743347, PubMed:29506131). Acts as a specific reader for 5-hydroxymethylcytosine (5hmC) and thereby recruits various substrates to these sites to ubiquitinate them (PubMed:24813944, 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

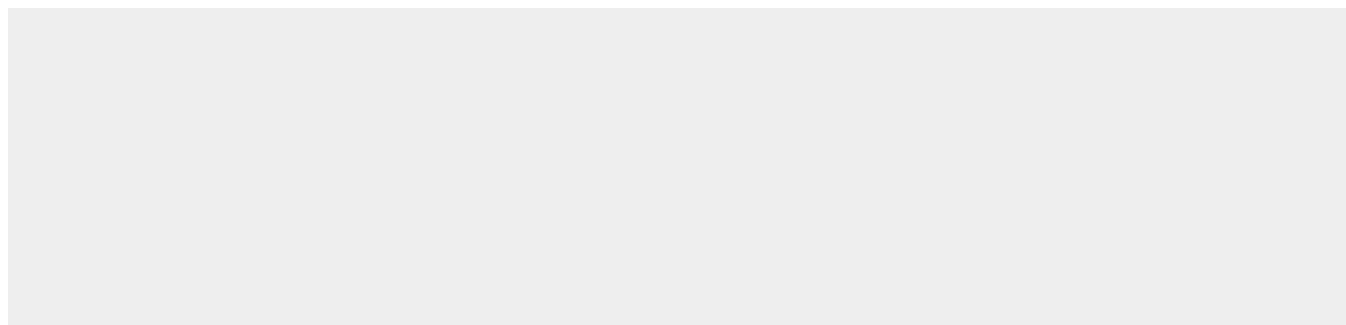
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00358, ECO:0000269|PubMed:12176013, ECO:0000269|PubMed:23404503, ECO:0000269|PubMed:27129234, ECO:0000269|PubMed:27743347, ECO:0000269|PubMed:29923055, ECO:0000269|PubMed:30335751}. Chromosome. Note=Enriched at genomic loci that are enriched for 5-hydroxymethylcytosine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

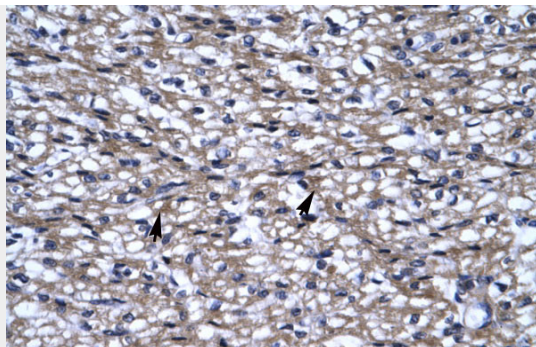
UHRF2 antibody - N-terminal region - Protocols

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

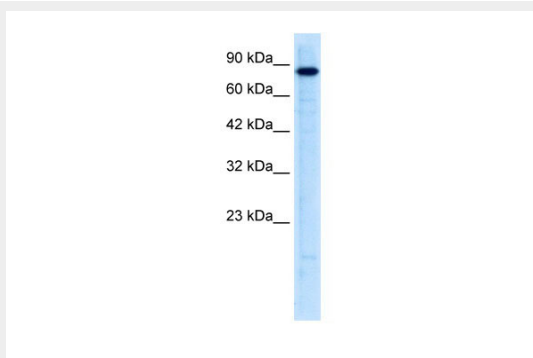
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

UHRF2 antibody - N-terminal region - Images





Human Heart



WB Suggested Anti-UHRF2 Antibody Titration: 0.2-1 $\mu\text{g/ml}$

ELISA Titer: 1:62500

Positive Control: Jurkat cell lysate

UHRF2 antibody - N-terminal region - References

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