

UHRF2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18663c**Specification**

UHRF2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q96PU4](#)**UHRF2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 115426**Other Names**

E3 ubiquitin-protein ligase UHRF2, 632-, 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

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

UHRF2 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

UHRF2 Antibody (Center) Blocking Peptide - Images

UHRF2 Antibody (Center) Blocking Peptide - 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 (PEST-containing nuclear protein), and together they may play a role in tumorigenesis. [provided by RefSeq].

UHRF2 Antibody (Center) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; He, X., et al. FEBS Lett. 583(21):3501-3507(2009) ; Iwata, A., et al. J. Biol. Chem. 284(15):9796-9803(2009) ; Unoki, M., et al. Oncogene 23(46):7601-7610(2004) ; Colland, F., et al. Genome Res. 14(7):1324-1332(2004)