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Uhrf2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10727

Product Information

Application	WB
Primary Accession	Q7TMI3
Other Accession	NM_144873, NP_659122
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Dog, Horse, Bovine
Predicted	Human, Mouse, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90106

Additional Information

Gene ID	109113
Alias Symbol	2310065A22Rik, AI426270, AW214556, D130071B19Rik, Nirf
Other Names	E3 ubiquitin-protein ligase UHRF2, 6.3.2.-, NIRF, Np95-like ring finger protein, Nuclear protein 97, Nuclear zinc finger protein Np97, Ubiquitin-like PHD and RING finger domain-containing protein 2, Ubiquitin-like-containing PHD and RING finger domains protein 2, Uhrf2, Nirf
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.

Protein Information

Name	Uhrf2
Synonyms	Nirf
Function	E3 ubiquitin ligase that plays important roles in DNA methylation, histone modifications, cell cycle and DNA repair. Acts as a specific reader for 5-hydroxymethylcytosine (5hmC) and thereby recruits various substrates to these sites to ubiquitinate them (PubMed:23434322, PubMed:28402695). This activity also allows the maintenance of 5mC levels at specific genomic loci and regulates neuron-related gene expression (PubMed:28115522). Participates in

cell cycle regulation by ubiquitinating cyclins CCND1 and CCNE1 and thus inducing G1 arrest. Also ubiquitinates PCNP leading to its degradation by the proteasome. Plays an active role in DNA damage repair by ubiquitinating p21/CDKN1A leading to its proteasomal degradation. 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. Contributes to UV-induced DNA damage response by physically interacting with ATR in response to irradiation, thereby promoting ATR activation (By similarity).

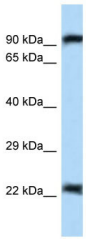
Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00358, ECO:0000269|PubMed:21598301}. Chromosome {ECO:0000250|UniProtKB:Q96PU4}. Note=Enriched at genomic loci that are enriched for 5-hydroxy-methylcytosine (5hmC) {ECO:0000250|UniProtKB:Q96PU4}

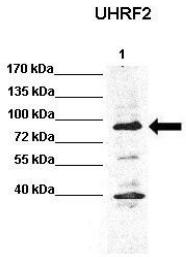
Tissue Location

Mostly detected in several tissues, including the thymus, spleen, lung, adrenal gland, and ovary. In addition, found in several tissues in the brain (cerebellum, hippocampus, and cerebral cortex).

Images



WB Suggested Anti-Uhrf2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas



WB Suggested Anti-Uhrf2 Antibody
Positive Control: Lane 1: 60ug HCT116 lysate
Primary Antibody Dilution : 1:1000
Secondary Antibody : Anti rabbit-HRP
Secondry Antibody Dilution : 1:5,000
Submitted by: Chinweike Ukomadu, Brigham and Women's Hospital, Boston