Recombinant Human UHRF2 Protein (T419-K648), Tag Free

Cat. No. UHRF2-0416H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UHRF2(SRA DomainT419-K648) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	T419-K648
Description	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. This activity also allows the maintenance of 5mC levels at specific genomic loci and regulates neuron-related gene expression. Participates in cell cycle regulation by ubiquitinating cyclins CCND1 and CCNE1 and thereby inducing G1 arrest. Ubiquitinates also PCNP leading to its degradation by the proteasome. Plays an active role in DNA damage repair by ubiquitinating p21/CDKN1A leading to its proteosomal degradation. 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. Contributes to UV-induced DNA damage response by physically interacting with ATR in response to irradiation, thereby promoting ATR activation.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	85%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH 7.5), 200 mM NaCl, 20% glycerol, 1 mM DTT.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	UHRF2 ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase [Homo sapiens (human)]
Official Symbol	UHRF2
Synonyms	UHRF2; ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase; ubiquitin like with PHD and ring finger domains 2; E3 ubiquitin-protein ligase UHRF2; MGC33463; NIRF; Np95 like ring finger protein; RNF107; URF2; nuclear protein 97; RING finger protein 107; Np95-like ring finger protein; nuclear zinc finger protein NP97; np95/ICBP90-like RING finger protein; ubiquitin-like, containing PHD and RING finger domains, 2; ubiquitin-like PHD and RING finger domain-containing protein 2; ubiquitin-like-containing PHD and RING finger domains protein 2; RP11-472F14.2; DKFZp434B0920; DKFZp686G0837;

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Gene ID	115426
mRNA Refseq	NM_152896
Protein Refseq	NP_690856
UniProt ID	Q96PU4

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