Datasheet for ABIN7555913

UHRF2 Protein (AA 1-802) (His tag)

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Overview

Quantity:	1 mg
Target:	UHRF2
Protein Characteristics:	AA 1-802
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UHRF2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant UHRF2 Protein expressed in mammalian cells.
Sequence:	MWIQVRTIDG SKTCTIEDVS RKATIEELRE RVWALFDVRP ECQRLFYRGK QLENGYTLFD YDVGLNDIIQ LLVRPDPDHL PGTSTQIEAK PCSNSPPKVK KAPRVGPSNQ PSTSARARLI DPGFGIYKVN ELVDARDVGL GAWFEAHIHS VTRASDGQSR GKTPLKNGSS CKRTNGNIKH KSKENTNKLD SVPSTSNSDC VAADEDVIYH IQYDEYPESG TLEMNVKDLR PRARTILKWN ELNVGDVVMV NYNVESPGQR GFWFDAEITT LKTISRTKKE LRVKIFLGGS EGTLNDCKII SVDEIFKIER PGAHPLSFAD GKFLRRNDPE CDLCGGDPEK KCHSCSCRVC GGKHEPNMQL LCDECNVAYH IYCLNPPLDK VPEEEYWYCP SCKTDSSEVV KAGERLKMSK KKAKMPSAST ESRRDWGRGM ACVGRTRECT IVPSNHYGPI PGIPVGSTWR FRVQVSEAGV HRPHVGGIHG RSNDGAYSLV LAGGFADEVD RGDEFTYTGS GGKNLAGNKR IGAPSADQTL TNMNRALALN CDAPLDDKIG AESRNWRAGK PVRVIRSFKG RKISKYAPEE GNRYDGIYKV VKYWPEISSS HGFLVWRYLL RRDDVEPAPW TSEGIERSRR LCLRLQYPAG YPSDKEGKKP KGQSKKQPSG TTKRPISDDD CPSASKVYKA SDSAEAIEAF QLTPQQQHLI REDCQNQKLW DEVLSHLVEG

Product Details

	PNFLKKLEQS FMCVCCQELV YQPVTTECFH NVCKDCLQRS FKAQVFSCPA CRHDLGQNYI MIPNEILQTL LDLFFPGYSK GR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	UHRF2
Alternative Name:	UHRF2 (UHRF2 Products)
Background:	E3 ubiquitin-protein ligase UHRF2 (EC 2.3.2.27) (Np95/ICBP90-like RING finger protein) (Np95-like RING finger protein) (Nuclear protein 97) (Nuclear zinc finger protein Np97) (RING finger protein 107) (RING-type E3 ubiquitin transferase UHRF2) (Ubiquitin-like PHD and RING finger domain-containing protein 2) (Ubiquitin-like-containing PHD and RING finger domains protein 2),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

Target Details

	(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). {ECO:0000250|UniProtKB:Q7TMI3, ECO:0000269|PubMed:12176013, ECO:0000269|PubMed:14741369, ECO:0000269|PubMed:15178429, ECO:0000269|PubMed:15361834, ECO:0000269|PubMed:21952639, ECO:0000269|PubMed:23404503, ECO:0000269|PubMed:24813944, ECO:0000269|PubMed:27129234, ECO:0000269|PubMed:27743347, ECO:0000269|PubMed:29506131, ECO:0000269|PubMed:29923055, ECO:0000269|PubMed:30335751, ECO:0000269|PubMed:33848395}.
Molecular Weight:	90.0 kDa
UniProt:	Q96PU4

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months