

Datasheet for ABIN7555290

RWDD3 Protein (AA 1-267) (His tag)



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Overview

Quantity:	1 mg
Target:	RWDD3
Protein Characteristics:	AA 1-267
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RWDD3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RWDD3 Protein expressed in mammalian cells.
Sequence:	<p>MAEPVQEELS VLAAIFCRPH EWEVLSRSET DGTVFRIHTK AEGFMDVDIP LELVFHLPVN</p> <p>YPSCLPGISI NSEQLTRAQC VTVKENLLEQ AESLLSEPMV HELVLWIIQN LRHILSQPET</p> <p>GSGSEKCTFS TSTTMDDGLW ITLLHLDHMR AKTKYVKIVE KWASDLRLTG RLMFMGKIIL</p> <p>ILLQGDRNNL KEYLILQKTS KVDVDSSGKK CKEKMISVLF ETKVQTEHKR FLAFEVKEYS</p> <p>ALDELQKEFE TAGLKRLFSE FVLALVK 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.</p>
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:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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:	RWDD3
Alternative Name:	RWDD3 (RWDD3 Products)
Background:	<p>RWD domain-containing protein 3 (RWD domain-containing sumoylation enhancer) (RSUME),FUNCTION: Enhancer of SUMO conjugation. Via its interaction with UBE2I/UBC9, increases SUMO conjugation to proteins by promoting the binding of E1 and E2 enzymes, thioester linkage between SUMO and UBE2I/UBC9 and transfer of SUMO to specific target proteins which include HIF1A, PIAS, NFKBIA, NR3C1 and TOP1. Isoform 1 and isoform 2 positively regulate the NF-kappa-B signaling pathway by enhancing the sumoylation of NF-kappa-B inhibitor alpha (NFKBIA), promoting its stabilization which consequently leads to an increased inhibition of NF-kappa-B transcriptional activity. Isoform 1 and isoform 2 negatively regulate the hypoxia-inducible factor-1 alpha (HIF1A) signaling pathway by increasing the sumoylation of HIF1A, promoting its stabilization, transcriptional activity and the expression of its target gene VEGFA during hypoxia. Isoform 2 promotes the sumoylation and transcriptional activity of the glucocorticoid receptor NR3C1 and enhances the interaction of SUMO1 and NR3C1 with UBE2I/UBC9. Has no effect on ubiquitination. {ECO:0000269 PubMed:17956732, ECO:0000269 PubMed:22009797, ECO:0000269 PubMed:23469069, ECO:0000269 PubMed:23508108}.</p>

Target Details

Molecular Weight: 30.5 kDa

UniProt: [Q9Y3V2](#)

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

Storage Comment: Store at -80°C.

Expiry Date: 12 months