Datasheet for ABIN7555254

RNF111 Protein (AA 1-994) (His tag)

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Overview

Quantity:	1 mg
Target:	RNF111
Protein Characteristics:	AA 1-994
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF111 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RNF111 Protein expressed in mammalian cells.
Sequence:	MSQWTPEYNE LYTLKVDMKS EIPSDAPKTQ ESLKGILLHP EPIGAAKSFP AGVEMINSKV GNEFSHLCDD SQKQEKEMNG NQQEQEKSLV VRKKRKSQQA GPSYVQNCVK ENQGILGLRQ HLGTPSDEDN DSSFSDCLSS PSSSLHFGDS DTVTSDEDKE VSVRHSQTIL NAKSRSHSAR SHKWPRTETE SVSGLLMKRP CLHGSSLRRL PCRKRFVKNN SSQRTQKQKE RILMQRKKRE VLARRKYALL PSSSSSSEND LSSESSSSSS TEGEEDLFVS ASENHQNNPA VPSGSIDEDV VVIEASSTPQ VTANEEINVT STDSEVEIVT VGESYRSRST LGHSRSHWSQ GSSSHASRPQ EPRNRSRIST VIQPLRQNAA EVVDLTVDED EPTVVPTTSA RMESQATSAS INNSNPSTSE QASDTASAVT SSQPSTVSET SATLTSNSTT GTSIGDDSRR TTSSAVTETG PPAMPRLPSC CPQHSPCGGS SQNHHALGHP HTSCFQQHGH HFQHHHHHHH TPHPAVPVSP SFSDPACPVE RPPQVQAPCG ANSSSGTSYH EQQALPVDLS NSGIRSHGSG SFHGASAFDP CCPVSSSRAA IFGHQAAAAA PSQPLSSIDG YGSSMVAQPQ PQPPPQPSLS SCRHYMPPPY ASLTRPLHHQ ASACPHSHGN PPPQTQPPPQ VDYVIPHPVH AFHSQISSHA TSHPVAPPPP THLASTAAPI

Product Details

	PQHLPPTHQP ISHHIPATAP PAQRLHPHEV MQRMEVQRRR MMQHPTRAHE RPPPHPHRMH PNYGHGHHIH VPQTMSSHPR QAPERSAWEL GIEAGVTAAT YTPGALHPHL AHYHAPPRLH HLQLGALPLM VPDMAGYPHI RYISSGLDGT SFRGPFRGNF EELIHLEERL GNVNRGASQG TIERCTYPHK YKKVTTDWFS QRKLHCKQDG EEGTEEDTEE KCTICLSILE EGEDVRRLPC MHLFHQVCVD QWLITNKKCP ICRVDIEAQL PSES **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:	RNF111
Alternative Name:	RNF111 (RNF111 Products)
Background:	E3 ubiquitin-protein ligase Arkadia (EC 2.3.2.27) (RING finger protein 111) (hRNF111) (RING-type E3 ubiquitin transferase Arkadia),FUNCTION: E3 ubiquitin-protein ligase (PubMed:26656854). Required for mesoderm patterning during embryonic development (By

Target Details

	similarity). Acts as an enhancer of the transcriptional responses of the SMAD2/SMAD3 effectors, which are activated downstream of BMP (PubMed:14657019, PubMed:16601693). Acts by mediating ubiquitination and degradation of SMAD inhibitors such as SMAD7, inducing their proteasomal degradation and thereby enhancing the transcriptional activity of TGF-beta and BMP (PubMed:14657019, PubMed:16601693). In addition to enhance transcription of SMAD2/SMAD3 effectors, also regulates their turnover by mediating their ubiquitination and subsequent degradation, coupling their activation with degradation, thereby ensuring that only effectors 'in use' are degraded (By similarity). Activates SMAD3/SMAD4-dependent transcription by triggering signal-induced degradation of SNON isoform of SKIL (PubMed:17591695). Associates with UBE2D2 as an E2 enzyme (PubMed:22411132). Specifically binds polysumoylated chains via SUMO interaction motifs (SIMs) and mediates ubiquitination of sumoylated substrates (PubMed:23751493). Catalyzes 'Lys-63'-linked ubiquitination of sumoylated XPC in response to UV irradiation, promoting nucleotide excision repair (PubMed:23751493). Mediates ubiquitination and degradation of sumoylated PML (By similarity). The regulation of the BMP-SMAD signaling is however independent of sumoylation and is not dependent of SUMO interaction motifs (SIMs) (By similarity). {ECO:0000250|UniProtKB:Q99ML9, ECO:0000269|PubMed:14657019, ECO:0000269|PubMed:16601693, ECO:0000269|PubMed:17591695, ECO:0000269|PubMed:22411132, ECO:0000269|PubMed:23751493, ECO:0000269|PubMed:26656854}.
Molecular Weight:	108.9 kDa
UniProt:	Q6ZNA4

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

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