

## Datasheet for ABIN7554818 **NUAK1 Protein (AA 1-661) (His tag)**



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Quantity:	1 mg
Target:	NUAK1
Protein Characteristics:	AA 1-661
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUAK1 protein is labelled with His tag.

## **Product Details**

Purpose:	Custom-made recombinant NUAK1 Protein expressed in mammalian cells.	
Sequence:	MEGAAAPVAG DRPDLGLGAP GSPREAVAGA TAALEPRKPH GVKRHHHKHN LKHRYELQET	
	LGKGTYGKVK RATERFSGRV VAIKSIRKDK IKDEQDMVHI RREIEIMSSL NHPHIISIYE	
	VFENKDKIVI IMEYASKGEL YDYISERRRL SERETRHFFR QIVSAVHYCH KNGVVHRDLK	
	LENILLDDNC NIKIADFGLS NLYQKDKFLQ TFCGSPLYAS PEIVNGRPYR GPEVDSWALG	
	VLLYTLVYGT MPFDGFDHKN LIRQISSGEY REPTQPSDAR GLIRWMLMVN PDRRATIEDI	
	ANHWWVNWGY KSSVCDCDAL HDSESPLLAR IIDWHHRSTG LQADTEAKMK GLAKPTTSEV	
	MLERQRSLKK SKKENDFAQS GQDAVPESPS KLSSKRPKGI LKKRSNSEHR SHSTGFIEGV	
	VGPALPSTFK MEQDLCRTGV LLPSSPEAEV PGKLSPKQSA TMPKKGILKK TQQRESGYYS	
	SPERSESSEL LDSNDVMGSS IPSPSPPDPA RVTSHSLSCR RKGILKHSSK YSAGTMDPAL	
	VSPEMPTLES LSEPGVPAEG LSRSYSRPSS VISDDSVLSS DSFDLLDLQE NRPARQRIRS	
	CVSAENFLQI QDFEGLQNRP RPQYLKRYRN RLADSSFSLL TDMDDVTQVY KQALEICSKL N	
	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:	
	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalian cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> </ul>	
	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:	NUAK1	
Alternative Name:	NUAK1 (NUAK1 Products)	
Background:	NUAK family SNF1-like kinase 1 (EC 2.7.11.1) (AMPK-related protein kinase 5) (ARK5)	
zaeng. earra.		
zaong, cana.	(Omphalocele kinase 1),FUNCTION: Serine/threonine-protein kinase involved in various	
2401.9104.14.	(Omphalocele kinase 1),FUNCTION: Serine/threonine-protein kinase involved in various processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation and	
2401.9104.14.		
	processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation an	
	processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation an tumor progression. Phosphorylates ATM, CASP6, LATS1, PPP1R12A and p53/TP53. Acts as a	
	processes such as cell adhesion, regulation of cell ploidy and senescence, cell proliferation and tumor progression. Phosphorylates ATM, CASP6, LATS1, PPP1R12A and p53/TP53. Acts as a regulator of cellular senescence and cellular ploidy by mediating phosphorylation of 'Ser-464' of the control of the cellular senescence and cellular ploidy by mediating phosphorylation of the cellular senescence.	

leading to reduced dephosphorylation of myosin MLC2 by myosin PP1. May be involved in DNA

damage response: phosphorylates p53/TP53 at 'Ser-15' and 'Ser-392' and is recruited to the CDKN1A/WAF1 promoter to participate in transcription activation by p53/TP53. May also act as a tumor malignancy-associated factor by promoting tumor invasion and metastasis under regulation and phosphorylation by AKT1. Suppresses Fas-induced apoptosis by mediating phosphorylation of CASP6, thereby suppressing the activation of the caspase and the subsequent cleavage of CFLAR. Regulates UV radiation-induced DNA damage response mediated by CDKN1A. In association with STK11, phosphorylates CDKN1A in response to UV radiation and contributes to its degradation which is necessary for optimal DNA repair (PubMed:25329316). {ECO:0000269|PubMed:12409306, ECO:0000269|PubMed:14976552, ECO:0000269|PubMed:15060171, ECO:0000269|PubMed:15273717, ECO:0000269|PubMed:21317932, ECO:0000269|PubMed:25329316}.

ECO:0000269|PubMed:19927127, ECO:0000269|PubMed:20354225,

Molecular Weight: 74.3 kDa

**Application Details** 

We expect the protein to work for functional studies. As the protein has not been tested for Application Notes:

functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

060285

Handling

UniProt:

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. 12 months **Expiry Date:**