

Datasheet for ABIN7555260

RNF168 Protein (AA 1-571) (His tag)



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Quantity:	1 mg
Target:	RNF168
Protein Characteristics:	AA 1-571
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF168 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RNF168 Protein expressed in mammalian cells.
Sequence:	MALPKDAIPS LSECQCGICM EILVEPVTLP CNHTLCKPCF QSTVEKASLC CPFCRRRVSS
	WTRYHTRRNS LVNVELWTII QKHYPRECKL RASGQESEEV ADDYQPVRLL SKPGELRREY
	EEEISKVAAE RRASEEEENK ASEEYIQRLL AEEEEEEKRQ AEKRRAMEE QLKSDEELAR
	KLSIDINNFC EGSISASPLN SRKSDPVTPK SEKKSKNKQR NTGDIQKYLT PKSQFGSASH
	SEAVQEVRKD SVSKDIDSSD RKSPTGQDTE IEDMPTLSPQ ISLGVGEQGA DSSIESPMPW
	LCACGAEWYH EGNVKTRPSN HGKELCVLSH ERPKTRVPYS KETAVMPCGR TESGCAPTSG
	VTQTNGNNTG ETENEESCLL ISKEISKRKN QESSFEAVKD PCFSAKRRKV SPESSPDQEE
	TEINFTQKLI DLEHLLFERH KQEEQDRLLA LQLQKEVDKE QMVPNRQKGS PDEYHLRATS
	SPPDKVLNGQ RKNPKDGNFK RQTHTKHPTP ERGSRDKNRQ VSLKMQLKQS VNRRKMPNST
	RDHCKVSKSA HSLQPSISQK SVFQMFQRCT K 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

Product Details

	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 entimized expression exetem engages reliability for introcellular goarsted and		
	 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:	RNF168		
Alternative Name:	RNF168 (RNF168 Products)		
Background:	E3 ubiquitin-protein ligase RNF168 (hRNF168) (EC 2.3.2.27) (RING finger protein 168) (RING-		
	type E3 ubiquitin transferase RNF168),FUNCTION: E3 ubiquitin-protein ligase required for		
	accumulation of repair proteins to sites of DNA damage. Acts with UBE2N/UBC13 to amplify		
	the RNF8-dependent histone ubiquitination. Recruited to sites of DNA damage at double-strar		
	breaks (DSBs) by binding to ubiquitinated histone H2A and H2AX and amplifies the RNF8-		
	dependent H2A ubiquitination, promoting the formation of 'Lys-63'-linked ubiquitin conjugates		
	This leads to concentrate ubiquitinated histones H2A and H2AX at DNA lesions to the threshold		
	required for recruitment of TP53BP1 and BRCA1. Also recruited at DNA interstrand cross-links		

(ICLs) sites and promotes accumulation of 'Lys-63'-linked ubiquitination of histones H2A and H2AX, leading to recruitment of FAAP20/C1orf86 and Fanconi anemia (FA) complex, followed

by interstrand cross-link repair. H2A ubiquitination also mediates the ATM-dependent transcriptional silencing at regions flanking DSBs in cis, a mechanism to avoid collision between transcription and repair intermediates. Also involved in class switch recombination in immune system, via its role in regulation of DSBs repair. Following DNA damage, promotes the ubiquitination and degradation of JMJD2A/KDM4A in collaboration with RNF8, leading to unmask H4K20me2 mark and promote the recruitment of TP53BP1 at DNA damage sites. Not able to initiate 'Lys-63'-linked ubiquitination in vitro, possibly due to partial occlusion of the UBE2N/UBC13-binding region. Catalyzes monoubiquitination of 'Lys-13' and 'Lys-15' of nucleosomal histone H2A (H2AK13Ub and H2AK15Ub, respectively). {ECO:0000255|HAMAP-Rule:MF_03066, ECO:0000269|PubMed:19203578, ECO:0000269|PubMed:19203579, ECO:0000269|PubMed:22705371, ECO:0000269|PubMed:22373579, ECO:0000269|PubMed:22705371, ECO:0000269|PubMed:22713238, ECO:0000269|PubMed:22742833, ECO:0000269|PubMed:22980979, ECO:0000269|PubMed:23760478, ECO:0000269|PubMed:27153538}.

Molecular Weight: 65.0 kDa
UniProt: Q8IYW5

Production of Molecular Mediator of Immune Response

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

Pathways:

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