

RNF113A Protein, Human (His)

Cat. No.:	HY-P701545
Synonyms:	RNF113A; E3 ubiquitin-protein ligase RNF113A; Cwc24 homolog; RING finger protein 113A; Zinc finger protein 183
Species:	Human
Source:	E. coli
Accession:	O15541 (A2-T343)
Gene ID:	7737
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	RNF113A serves as a vital component of the spliceosome, participating in pre-mRNA splicing processes and contributing to the splicing of U12-type introns as a component of the minor spliceosome. Additionally, RNF113A functions as an E3 ubiquitin-protein ligase, catalyzing the transfer of ubiquitin onto target proteins. Notably, it catalyzes the polyubiquitination of SNRNP200/BRR2 with non-canonical 'Lys-63'-linked polyubiquitin chains. This multifaceted protein plays a crucial role in DNA repair by synthesizing 'Lys-63'-linked polyubiquitin chains that recruit ALKBH3 and the ASCC complex to sites of DNA damage induced by alkylating agents. Furthermore, RNF113A regulates signaling termination by ubiquitinating CXCR4, leading to its degradation and, consequently, the cessation of CXCR4 signaling.
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Caution: Product has not been fully validated for medical applications. For research use only.

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