

## RNF114 Protein, Human

Cat. No.:	HY-P701548
Synonyms:	RNF114; E3 ubiquitin-protein ligase RNF114; RING finger protein 114; RING-type E3 ubiquitin transferase RNF114; Zinc finger protein 228; Zinc finger protein 313
Species:	Human
Source:	E. coli
Accession:	Q9Y508 (A2-Q228)
Gene ID:	55905
Molecular Weight:	Approximately 25.7 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT, pH 7.5.
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	RNF114 Protein, functioning as an E3 ubiquitin-protein ligase, plays a pivotal role in orchestrating diverse cellular processes by promoting the ubiquitination of various substrates. With broad implications, it is involved in the regulation of fundamental biological processes including cell cycle progression, apoptosis, osteoclastogenesis, as well as both innate and adaptive immunity. RNF114 acts as a negative regulator of NF-kappa-B-dependent transcription by facilitating the ubiquitination and stabilization of the NF-kappa-B inhibitor TNFAIP3, and potentially TRAF6, thereby influencing immune responses. Additionally, it functions as a negative regulator of T-cell activation and impedes cellular dsRNA responses and interferon production by targeting the MAVS component for proteasomal degradation. Through its ubiquitination of CDK inhibitors, such as CDKN1A, CDKN1B, and CDKN1C, RNF114 stimulates G1-to-S phase transition, suppressing cellular senescence and potentially contributing to spermatogenesis. This multifaceted activity underscores the significance of RNF114 in governing key cellular pathways and processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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