

## RNF11 Protein, Human (His)

Cat. No.:	HY-P701551
Synonyms:	RNF11; RING finger protein 11
Species:	Human
Source:	E. coli
Accession:	Q9Y3C5 (G2-N154)
Gene ID:	26994
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	<p>RNF11 takes center stage as an essential component of a ubiquitin-editing protein complex, a collaborative ensemble featuring TNFAIP3, ITCH, and TAX1BP1. This complex operates intricately to orchestrate the transient nature of inflammatory signaling pathways, exerting control over TNF- or LPS-mediated activation of NF-kappa-B. RNF11's role extends to promoting the association of TNFAIP3 with RIPK1 post-TNF stimulation. This, in turn, facilitates TNFAIP3's deubiquitination of 'Lys-63' polyubiquitin chains on RIPK1, initiating the formation of 'Lys-48'-polyubiquitin chains that culminate in RIPK1's proteasomal degradation. Furthermore, RNF11 acts as a recruiter, bringing STAMBP to the E3 ubiquitin-ligase SMURF2 for ubiquitination, ultimately resulting in SMURF2's degradation by the 26S proteasome. This intricate web of interactions involves 14-3-3 (when phosphorylated), the E3 ubiquitin-ligases NEDD4, ITCH, SMURF2, and WWP1, as well as the E2 ubiquitin-conjugating enzymes UBE2D1 and UBE2N. Noteworthy associations include those with ZNF350, EPS15, STAMBP, TAX1BP1, TNFAIP3, RIPK1, and GGA1, revealing the multifaceted nature of RNF11's regulatory engagements.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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