

RNF10 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17072a

Specification

RNF10 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O8N5U6
Other Accession	NP_055683.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	89927
Antigen Region	178-206

RNF10 Antibody (N-term) - Additional Information

Gene ID 9921

Other Names

RING finger protein 10, RNF10, KIAA0262, RIE2

Target/Specificity

This RNF10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 178-206 amino acids from the N-terminal region of human RNF10.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RNF10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF10 Antibody (N-term) - Protein Information

Name RNF10 {ECO:0000303|PubMed:10697961, ECO:0000312|HGNC:HGNC:10055}

Function E3 ubiquitin-protein ligase that catalyzes monoubiquitination of 40S ribosomal proteins

RPS2/us5 and RPS3/us3 in response to ribosome stalling (PubMed:[34348161](#), PubMed:[34469731](#), PubMed:[39609413](#), PubMed:[39947182](#), PubMed:[39947183](#), PubMed:[40022732](#)). Part of a ribosome quality control that takes place when ribosomes have stalled during translation initiation (iRQC) or elongation (PubMed:[34348161](#), PubMed:[34469731](#), PubMed:[39609413](#), PubMed:[39947182](#), PubMed:[39947183](#), PubMed:[40022732](#)). The ribosome quality control is activated in response to ribosome subunit imbalance, amino acid starvation or downstream the EIF2AK4/GCN2-mediated integrated stress response (ISR) (PubMed:[39609413](#), PubMed:[39947182](#), PubMed:[39947183](#), PubMed:[40022732](#)). RNF10 acts by mediating monoubiquitination of RPS2/us5 and RPS3/us3: monoubiquitinated RPS2/us5 and RPS3/us3 are then recognized by R1OK3 kinase, leading to 18S non-functional rRNA decay and degradation of the 40S ribosomal subunit (PubMed:[34348161](#), PubMed:[34469731](#), PubMed:[39609413](#), PubMed:[39947182](#), PubMed:[39947183](#), PubMed:[40022732](#)). The action of RNF10 in iRQC is counteracted by USP10 (PubMed:[34469731](#)).

Cellular Location

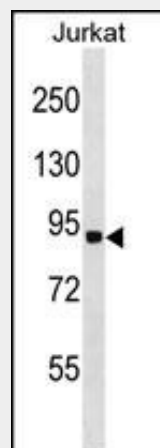
Cytoplasm. Nucleus {ECO:0000250|UniProtKB:Q5XI59}

RNF10 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RNF10 Antibody (N-term) - Images



RNF10 Antibody (N-term) (Cat. #AP17072a) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the RNF10 antibody detected the RNF10 protein (arrow).

RNF10 Antibody (N-term) - Background

The protein encoded by this gene contains a ring finger motif, which is known to be involved in protein-protein interactions. The specific function of this protein has not yet been determined. EST data suggests the existence of multiple

alternatively spliced transcript variants, however, their full length nature is not known.

RNF10 Antibody (N-term) - References

- Hoshikawa, S., et al. PLoS ONE 3 (10), E3464 (2008) :
Stelzl, U., et al. Cell 122(6):957-968(2005)
Lin, J., et al. Mol. Cell. Biochem. 275 (1-2), 75-84 (2005) :
Seki, N., et al. J. Hum. Genet. 45(1):38-42(2000)