

RNF10 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10127**Specification**

RNF10 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O8N5U6
Other Accession	O8N5U6 , NP_055683 , NM_014868
Reactivity	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Chicken, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90 kDa KDa

RNF10 antibody - N-terminal region - Additional Information**Gene ID** 9921**Alias Symbol** KIAA0262, MGC126758, MGC126764, RIE2
Other Names
RING finger protein 10, RNF10, KIAA0262, RIE2**Target/Specificity**

RNF10 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. 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.

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-RNF10 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

RNF10 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

RNF10 antibody - N-terminal region - 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

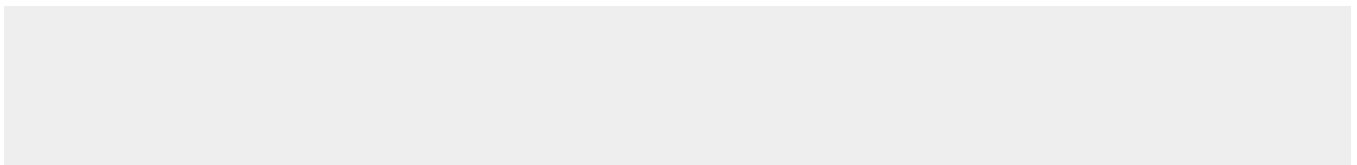
Cytoplasm. Nucleus {ECO:0000250|UniProtKB:Q5XI59}

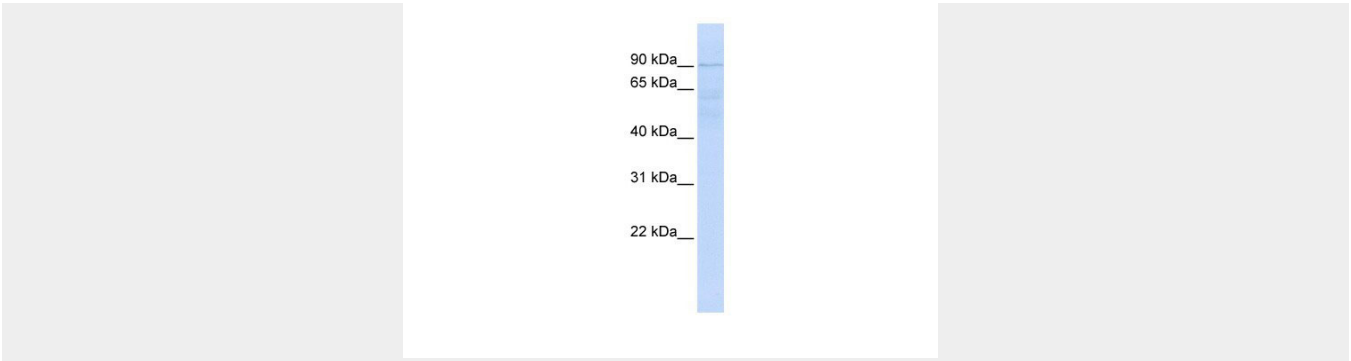
RNF10 antibody - N-terminal region - Protocols

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-terminal region - Images





90 kDa__
65 kDa__
40 kDa__
31 kDa__
22 kDa__

RNF10 antibody - N-terminal region (AI10127) in Human HeLa cells using Western Blot

WB Suggested Anti-RNF10 Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:500

Positive Control: Hela cell lysate

RNF10 is strongly supported by BioGPS gene expression data to be expressed in Human HeLa cells

RNF10 antibody - N-terminal region - Background

This is a rabbit polyclonal antibody against RNF10. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).