10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RNF10 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10127

Product Information

Application	WB
Primary Accession	Q8N5U6
Other Accession	Q8N5U6, 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	89927

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.

Protein Information

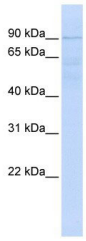
Name	RNF10 {ECO:0000303|PubMed:10697961, ECO:0000312|HGNC:HGNC:10055}

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 RIOK3 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}

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).

Images



RNF10 antibody - N-terminal region (AI10127) in Human HeLa cells using Western Blot
WB Suggested Anti-RNF10 Antibody Titration: 0.2-1 µg/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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.