

Anti-RNF34 (RABBIT) Antibody
RNF34 Antibody
Catalog # ASR4412

Specification

Anti-RNF34 (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	This protein A purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 42 kDa in size corresponding to RNF34 protein by western blotting in the appropriate tissue or cell lysate or extract. Isoforms 1 and 2, which are equivalent in size, should both cross-react with this antibody.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 1-373 of human RNF34 protein.
Reconstitution Volume	500 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-RNF34 (RABBIT) Antibody - Additional Information

Gene ID 80196

Other Names
80196

Purity

This protein A purified antibody is directed against human RNF34 protein. The product was purified from monospecific antiserum by protein A chromatography followed by exhaustive dialysis against the buffer stated above. A BLAST analysis was used to suggest cross-reactivity with RNF34 protein from orangutan (99%), bovine (91%), dog (89%), mouse (88%) and rat (85%) based on a high degree of protein:protein homology with the immunizing sequence. Expect reactivity with isoform 1 and 2 of RNF34. Reactivity against homologues from other sources is not known.

Storage Condition

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-RNF34 (RABBIT) Antibody - Protein Information

Name RNF34 ([HGNC:17297](#))

Function

E3 ubiquitin-protein ligase that regulates several biological processes through the ubiquitin-mediated proteasomal degradation of various target proteins. Ubiquitinates the caspases CASP8 and CASP10, promoting their proteasomal degradation, to negatively regulate cell death downstream of death domain receptors in the extrinsic pathway of apoptosis (PubMed:15069192). May mediate 'Lys-48'-linked polyubiquitination of RIPK1 and its subsequent proteasomal degradation thereby indirectly regulating the tumor necrosis factor-mediated signaling pathway (Ref.13). Negatively regulates p53/TP53 through its direct ubiquitination and targeting to proteasomal degradation (PubMed:17121812). Indirectly, may also negatively regulate p53/TP53 through ubiquitination and degradation of SFN (PubMed:18382127). Mediates PPARGC1A proteasomal degradation probably through ubiquitination thereby indirectly regulating the metabolism of brown fat cells (PubMed:22064484). Possibly involved in innate immunity, through 'Lys-48'-linked polyubiquitination of NOD1 and its subsequent proteasomal degradation (PubMed:25012219).

Cellular Location

Cell membrane; Peripheral membrane protein. Endomembrane system {ECO:0000250|UniProtKB:Q6AYH3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q6AYH3}. Nucleus Nucleus speckle. Cytoplasm, cytosol

Tissue Location

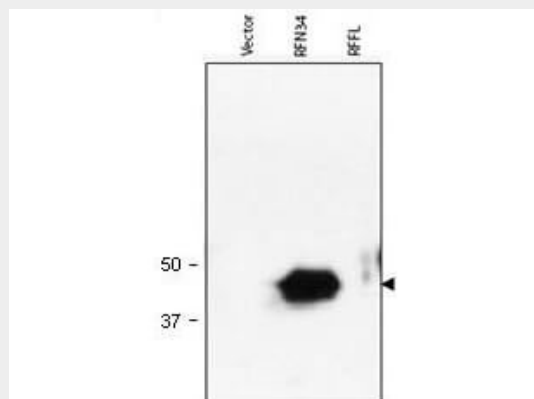
Ubiquitous. Detected in heart, brain, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, colon and leukocytes.

Anti-RNF34 (RABBIT) Antibody - 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](#)

Anti-RNF34 (RABBIT) Antibody - Images



Western blot using Rockland's Protein A Purified anti-RNF34 antibody shows detection of human RNF34 (arrowhead) in lysate. Lanes corresponding to empty vector 293T cell lysate (mock, left); RNF34 transfected lysate (middle) and RFFL transfected lysate (right), are shown using 20 μ l of lysate per lane. Lysates were prepared from equivalent numbers of cells. Data presented demonstrate that this reagent is specific for RNF34. After SDS-PAGE and transfer, the membrane was probed with the primary antibody diluted to 1:1,000 using 5% BLOTTO, 0.1% Tween-20 in PBS as the diluent. Incubation occurred for 1 h at room temperature. Personal Communication, Srinivasa Srinivasula, CCR-NCI, Bethesda, MD.

Anti-RNF34 (RABBIT) Antibody - Background

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). RNF34, also known as RING finger protein 34, RING finger protein RIFF, FYVE-RING finger protein Momo, Human RING finger homologous to inhibitor of apoptosis protein, hRFI, Caspases-8 and -10-associated RING finger protein 1, CARP-1 and Caspase regulator CARP1, is a novel modulator of NF- κ B activation. RNF34 possesses E3 ubiquitin protein ligase activity and has been shown to directly and indirectly regulate the levels of p53/TP53 through ubiquitination, targeting to proteasomal degradation and degradation of SFN. Anti-RNF34 Antibody is useful for researcher interested in Immunology, p53 regulation, Transcription, and Nuclear Signaling research.