

**Anti-RFFL (RABBIT) Antibody**  
**RFFL Antibody**  
**Catalog # ASR4411****Specification**

---

**Anti-RFFL (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	This protein A purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 41 kDa in size corresponding to RFFL protein by western blotting in the appropriate tissue or cell lysate or extract. Isoforms 2 and 3 are 39.7 and 36.6 kDa, respectively and should also 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 1-363 of human RFFL protein.
Reconstitution Volume	500 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

**Anti-RFFL (RABBIT) Antibody - Additional Information****Gene ID** 117584**Other Names**  
117584**Purity**

This protein A purified antibody is directed against human RFFL protein. The product was purified from monospecific antiserum by protein A chromatography followed by exhaustive dialysis against the buffer stated above.

**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-RFFL (RABBIT) Antibody - Protein Information**

**Name** RFFL ([HGNC:24821](#))

**Synonyms** RNF189, RNF34L

**Function**

E3 ubiquitin-protein ligase that regulates several biological processes through the ubiquitin-mediated proteasomal degradation of various target proteins. Mediates 'Lys-48'-linked polyubiquitination of PRR5L and its subsequent proteasomal degradation thereby indirectly regulating cell migration through the mTORC2 complex. 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. Negatively regulates the tumor necrosis factor-mediated signaling pathway through targeting of RIPK1 to ubiquitin-mediated proteasomal degradation. Negatively regulates p53/TP53 through its direct ubiquitination and targeting to proteasomal degradation. Indirectly, may also negatively regulate p53/TP53 through ubiquitination and degradation of SFN. May also play a role in endocytic recycling.

**Cellular Location**

Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Recycling endosome membrane; Peripheral membrane protein. Note=The FYVE-type zinc finger may mediate phosphatidylinositol phosphate-binding and control subcellular localization

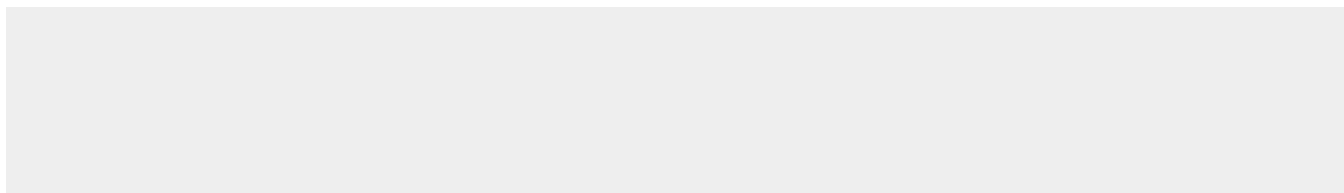
**Tissue Location**

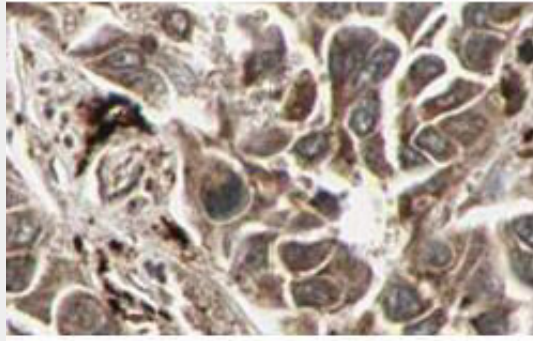
Ubiquitous. Detected in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes

**Anti-RFFL (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-RFFL (RABBIT) Antibody - Images**



Rockland's Affinity Purified anti-RFFL antibody shows strong cytoplasmic and membranous staining of tumor cells in cancerous human liver tissue. Tissue was formalin-fixed and paraffin embedded. Brown color indicates presence of protein, blue color shows cell nuclei. Personal Communication, Kenneth Wester, [www.proteinatlas.org](http://www.proteinatlas.org), Uppsala, Sweden.

#### **Anti-RFFL (RABBIT) Antibody - Background**

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). RFFL, also known as Rififylin, RING finger and FYVE-like domain-containing protein 1, FYVE-RING finger protein, Sakura, Fring, Caspases-8 and -10-associated RING finger protein 2, CARP-2, Caspase regulator CARP2, RING finger protein 189 and RING finger protein 34-like, is a novel modulator of NF- $\kappa$ B activation. RFFL possesses E3 ubiquitin protein ligase activity and has been shown to regulate the levels of CASP8 and CASP10 by targeting them for proteasomal degradation. RFFL also possesses anti-apoptotic activity and may bind phosphatidylinositol phosphates. RFFL is a membrane bound cytoplasmic protein that is expressed ubiquitously. RFFL can be detected in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes and is rapidly degraded after stimulation with TNFSF10, and probably by caspases. Multiple transcript variants have been detected for this protein. Anti-RFFL Antibody is useful for researcher interested in Cancer, Immunology, transcription, and TNF- $\alpha$ /NF- $\kappa$ B research.