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# RNF158 Rabbit pAb

RNF158 Rabbit pAb
Catalog # AP59188

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q8TEC5 |
| **Reactivity** | Rat |
| **Predicted** | Human, Mouse, Chicken, Dog, Horse, Rabbit, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 79320 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human RNF158 |
| **Epitope Specificity** | 621-729/729 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the SH3RF family. Contains 1 RING-type zinc finger. Contains 3 SH3 domains. |
| **SUBUNIT** | Interacts with FASLG and PPP1CA. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. SH3RF2 (SH3 domain containing ring finger 2), also known as RNF158, is a 729 amino acid protein with one RING-type zinc finger domain and three SH3 domains. Via its RING-type zinc finger domain, SH3RF2 binds an E2 ubiquitin-conjugating enzyme. This suggests that SH3RF2 functions as an E3 ubiquitin-protein ligase that accepts a ubiquitin residue from an E2 ubiquitin-conjugating enzyme and immediately transfers that residue to a protein that is targeted for degradation. Due to alternative splicing events, SH3RF2 is expressed as two different isoforms. |

## Additional Information

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| **Gene ID** | 153769 |
| **Other Names** | E3 ubiquitin-protein ligase SH3RF2, 2.3.2.27, Heart protein phosphatase 1-binding protein, HEPP1, POSH-eliminating RING protein, Protein phosphatase 1 regulatory subunit 39, RING finger protein 158, RING-type E3 ubiquitin transferase SH3RF2, SH3 domain-containing RING finger protein 2, SH3RF2 |

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| **Target/Specificity** | Heart (at protein level). Heart and testis. In the heart, present in the apex, left atrium, right atrium, left ventricle and right ventricle, but not in the aorta. |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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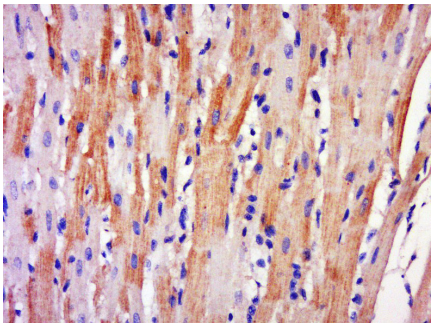
| **Name** | SH3RF2 |
| **Function** | Has E3 ubiquitin-protein ligase activity (PubMed: 24130170). Acts as an anti-apoptotic regulator of the JNK pathway by ubiquitinating and promoting the degradation of SH3RF1, a scaffold protein that is required for pro-apoptotic JNK activation (PubMed:22128169). Facilitates TNF-mediated recruitment of adapter proteins TRADD and RIPK1 to TNFRSF1A and regulates PAK4 protein stability via inhibition of its ubiquitin-mediated proteasomal degradation (PubMed:24130170). Inhibits PPP1CA phosphatase activity (PubMed:19389623, PubMed:19945436). |
| **Cellular Location** | Nucleus. |
| **Tissue Location** | Heart (at protein level). Up-regulated in colon cancer tissues as compared to normal colon tissues (at protein level) Testis. In the heart, present in the apex, left atrium, right atrium, left ventricle and right ventricle, but not in the aorta |

## Background

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. SH3RF2 (SH3 domain containing ring finger 2), also known as RNF158, is a 729 amino acid protein with one RING-type zinc finger domain and three SH3 domains. Via its RING-type zinc finger domain, SH3RF2 binds an E2 ubiquitin-conjugating enzyme. This suggests that SH3RF2 functions as an E3 ubiquitin-protein ligase that accepts a ubiquitin residue from an E2 ubiquitin-conjugating enzyme and immediately transfers that residue to a protein that is targeted for degradation. Due to alternative splicing events, SH3RF2 is expressed as two different isoforms.

## Images



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-RNF158 Polyclonal Antibody, Unconjugated(AP59188) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining