

RNF158 Rabbit pAb

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#### **Product Information**

**Application** IHC-P, IHC-F, IF

Primary Accession <u>Q8TEC5</u>

**Reactivity** Mouse, Rabbit, Chicken, Dog, Horse

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**

**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

**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**

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-alpha-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.

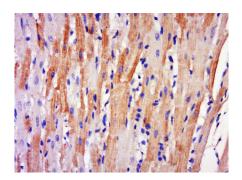
**Tissue Location** Heart (at protein level). Up-regulated in colon cancer tissues as compared to

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°C 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 DAR(C 0010) staining

DAB(C-0010) staining

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