

Rabbit Anti-SYVN1 antibody

SL0679R

Product Name SYVN1

Chinese Name 滑膜 Apoptosis 抑制物 1 抗体

Alias 1200010C09Rik; HRD1; KIAA1810; MGC40372; Synovial apoptosis inhibitor 1 synoviolin; Synoviolin 1 isoform b; SYVN1_HUMAN; DER3; E3 ubiquitin-protein ligase synoviolin; HMG coA reductase degradation 1 homolog; OTTHUMP00000230429; OTTHUMP00000230430; OTTHUMP00000230431; OTTHUMP00000230432; Synovial apoptosis inhibitor 1; Synoviolin 1 isoform b; SYNOVIOLIN; SYVN1.

Research Area Cell biology immunology Apoptosis

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat(predicted:Dog,Cow)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=3µg/Test
(Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 65kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human SYVN1: 531-617/617

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Mouse,Rat(predicted:Dog,Cow)1M TBS(pH7.4) with 1% BSA,
Human,Mouse,Rat(predicted:Dog,Cow)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

This gene encodes a protein involved in endoplasmic reticulum (ER)-associated degradation. The encoded protein removes unfolded proteins, accumulated during ER stress, by retrograde transport to the cytosol from the ER. This protein also uses the ubiquitin-proteasome system for additional degradation of unfolded proteins. Sequence analysis identified two transcript variants that encode different isoforms. [provided by RefSeq, May 2011]

Function:

Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin specifically from endoplasmic reticulum-associated UBC7 E2 ligase and transfers it to substrates, promoting their degradation. Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins. Also promotes the degradation of normal but naturally short-lived proteins such as SGK. Protects cells from ER stress-induced apoptosis. Protects neurons from apoptosis induced by polyglutamine-expanded huntingtin (HTT) or unfolded GPR37 by promoting their degradation. Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis.

**Product
Detail**

Subunit:

Homodimer. Interacts with p53/TP53 and HTT. Interacts with VCP, HERPUD1 and DERL1. Part of a complex containing SYVN1, HERPUD1, SELS and DERL1; which probably transfer misfolded proteins from the ER to VCP. Part of a complex containing SYVN1, SEL1L and DERL2. Interacts with UBXN6. Interacts with SEL1L; recruits ERLEC1 and OS9. May form a complex with ERLEC1; HSPA5; OS9 AND SEL1L.

Subcellular Location:

Endoplasmic reticulum membrane; Multi-pass membrane protein.

Tissue Specificity:

Ubiquitously expressed, with highest levels in liver and kidney (at protein level). Up-regulated in synovial tissues from patients with rheumatoid arthritis (at protein level).

Post-translational modifications:

Not N-glycosylated.
Auto-ubiquitinated.

Similarity:

Belongs to the HRD1 family.

Contains 1 RING-type zinc finger.

SWISS:
Q86TM6

Gene ID:
84447

Database links:

[Entrez Gene: 84447](#) Human

[Entrez Gene: 74126](#) Mouse

[Entrez Gene: 361712](#) Rat

[Omim: 608046](#) Human

[SwissProt: Q86TM6](#) Human

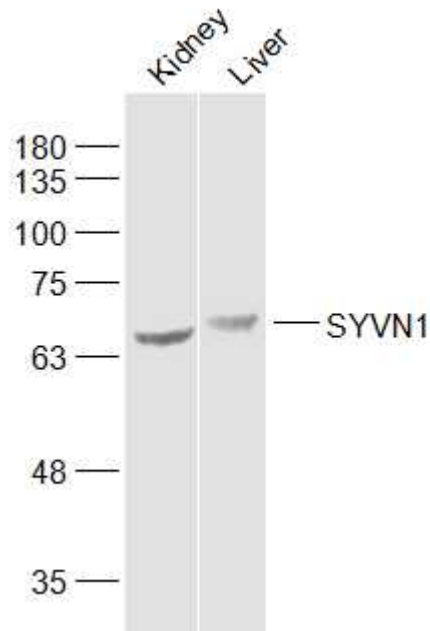
[SwissProt: Q9DBY1](#) Mouse

[Unigene: 75859](#) Human

[Unigene: 149870](#) Mouse

与关节滑膜的损伤有关。

**Product
Picture**



Sample:

Kidney (Mouse) Lysate at 40 ug

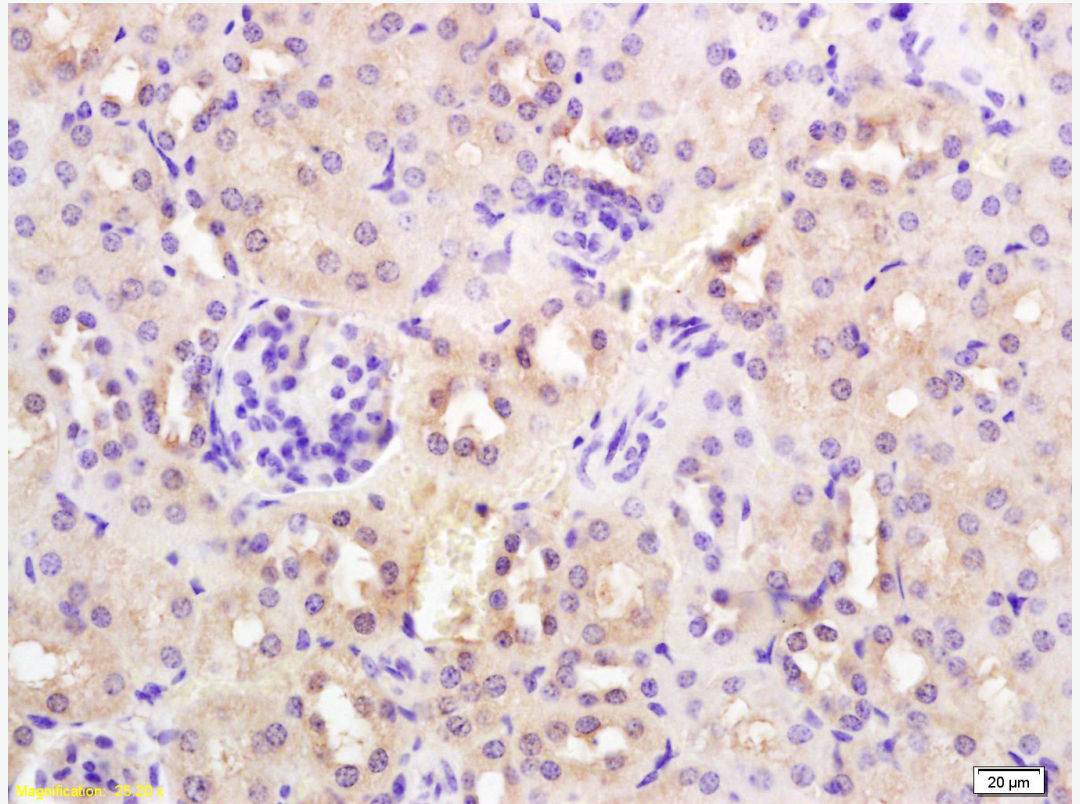
Liver (Mouse) Lysate at 40 ug

Primary: Anti-SYVN1 (SL0679R) at 1/1000 dilution

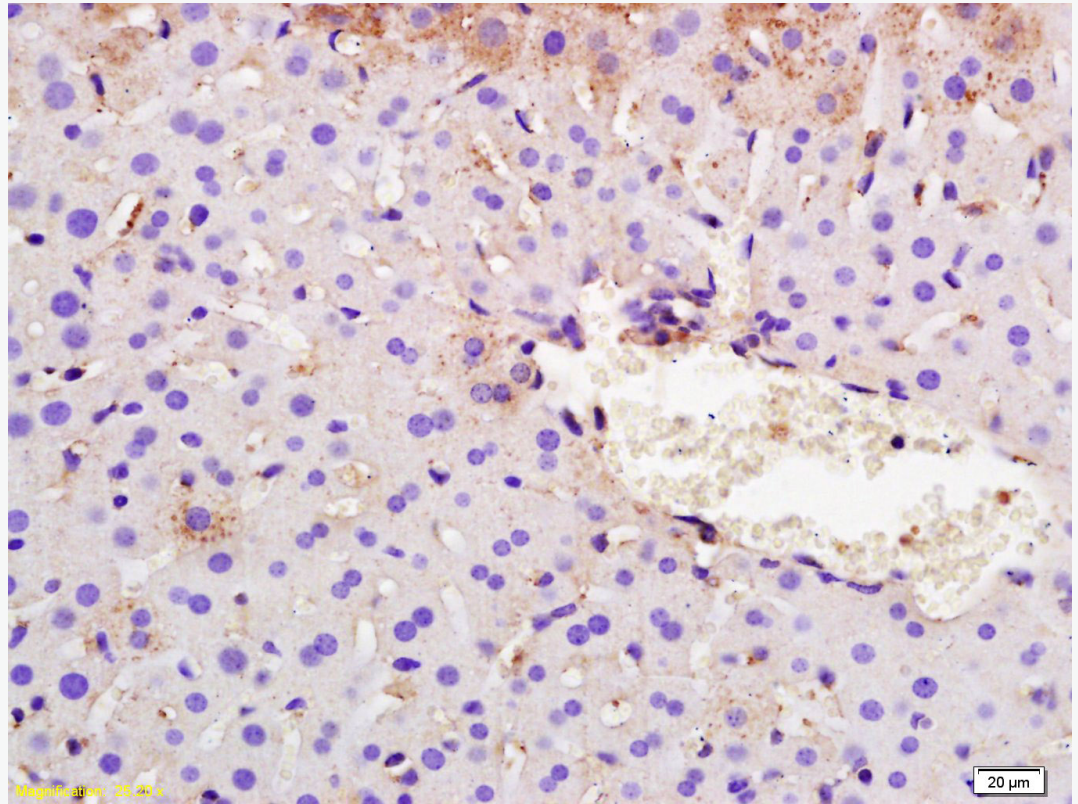
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD

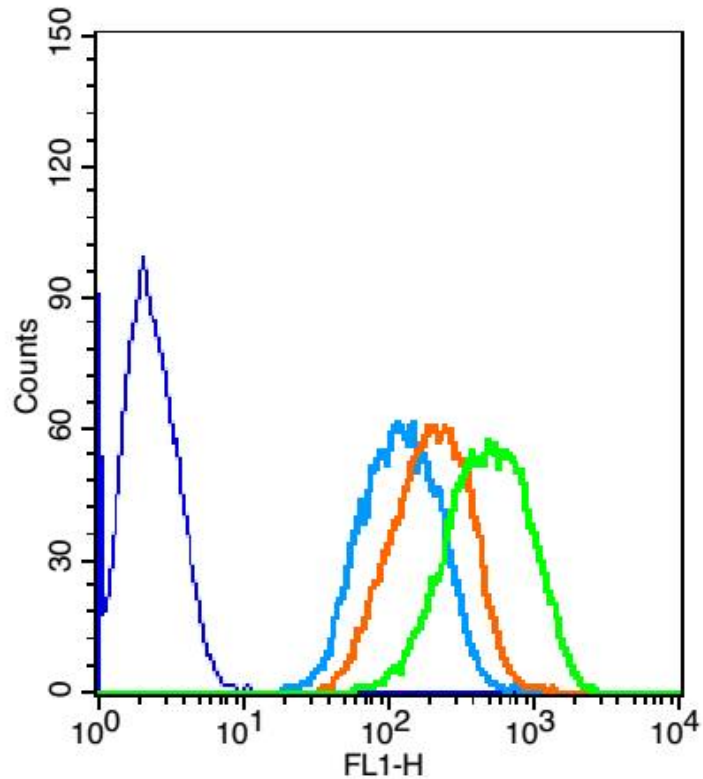
Observed band size: 65/70 kD



Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (Human,Mouse,Rat(predicted:Dog,Cow)1M, 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-SYVN1/HRD1 Polyclonal Antibody, Unconjugated(SL0679R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (Human,Mouse,Rat(predicted:Dog,Cow)1M, 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-SYVN1/HRD1 Polyclonal Antibody, Unconjugated(SL0679R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



The figure annotation:

The blue histogram is unstained cells.

The Wathet Blue histogram is cells stained with secondary antibody (SL0295G-FITC) alone.

The Orange histogram is cells stained with rabbit IgG isotype control antibody(SL0295P)plus secondary antibody.

The green histogram is cells stained with Rabbit Anti-SYVN1 antibody (SL0679R) plus secondary antibody.

Positive control: Hepg2 cells



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Concentration: 1:50