

For Research Use Only

# HRD1/SYVN1 Polyclonal antibody

Catalog Number: 13473-1-AP

Featured Product

72 Publications



## Basic Information

### Catalog Number:

13473-1-AP

### Size:

150ul, Concentration: 850 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4267

### GenBank Accession Number:

BC030530

### GeneID (NCBI):

84447

### UNIPROT ID:

Q86TM6

### Full Name:

synovial apoptosis inhibitor 1, synoviolin

### Calculated MW:

617 aa, 68 kDa

### Observed MW:

68-76 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, IP-MS

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: HEK-293 cells, HeLa cells, HepG2 cells, MDA-MB-453s cells, mouse kidney tissue, mouse ovary tissue, mouse pancreas tissue, mouse stomach tissue, NIH/3T3 cells, Raji cells, rat stomach tissue

**IP**: mouse kidney tissue,

**IHC**: human kidney tissue,

**IF/ICC**: HepG2 cells,

## Background Information

HRD1 is also named as SYVN1 (Synovial apoptosis inhibitor 1), KIAA1810. It 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. Two distinct binding sites mediate Hrd1 dimerization or oligomerization, one located within the transmembrane region and another within the cytosolic domain. (PMID:19864457). Western blot analysis detected abundant HRD1 expression in liver and kidney. Mouse liver and spleen expressed Hrd1 as an 85-kD protein (PMID:12646171).

## Notable Publications

| Author                 | Pubmed ID | Journal          | Application |
|------------------------|-----------|------------------|-------------|
| Chih-Hang Anthony Tang | 32999453  | Cell Mol Immunol | WB          |
| Yu Sun                 | 34562065  | J Cell Mol Med   | WB          |
| Yu-Jie Chen            | 34645803  | Nat Commun       | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

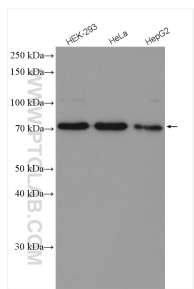
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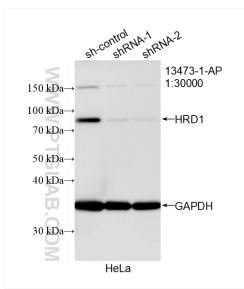
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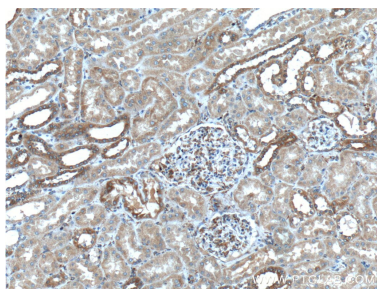
Selected Validation Data



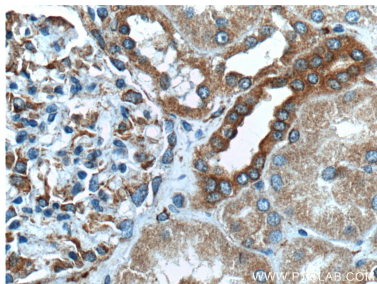
Various lysates were subjected to SDS PAGE followed by western blot with 13473-1-AP (SYVN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



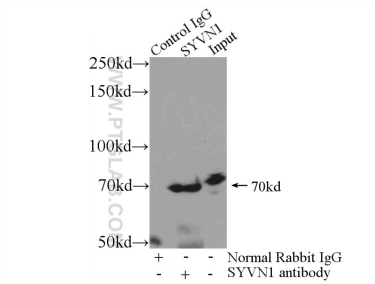
WB result of HRD1/SYVN1 antibody (13473-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HRD1/SYVN1 transfected HeLa cells.



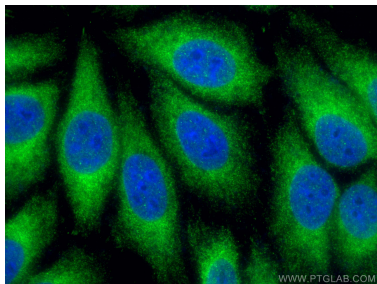
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13473-1-AP (SYVN1 antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13473-1-AP (SYVN1 antibody at dilution of 1:200 (under 40x lens).



IP result of anti-HRD1/SYVN1 (IP:13473-1-AP, 4ug; Detection:13473-1-AP 1:1000) with mouse kidney tissue lysate 7200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HRD1/SYVN1 antibody (13473-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).