

For Research Use Only

# SRRT Polyclonal antibody

Catalog Number: 20353-1-AP

Featured Product



## Basic Information

### Catalog Number:

20353-1-AP

### Size:

150ul, Concentration: 1200 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14196

### GenBank Accession Number:

BC000082

### GeneID (NCBI):

51593

### UNIPROT ID:

Q9BXP5

### Full Name:

serrate RNA effector molecule homolog (Arabidopsis)

### Calculated MW:

876 aa, 101 kDa

### Observed MW:

120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Species Specificity:

human, mouse

### Positive Controls:

WB: HeLa cells, HEK-293 cells, NIH/3T3 cells, HepG2 cells, K-562 cells

IP: Jurkat cells,

IF/ICC: MCF-7 cells,

## Background Information

SRRT (Serrate RNA effector molecule homolog) is also named as ARS2 (Arsenite-resistance protein 2). ARS2/SRRT is an essential eukaryotic protein that has emerged as a critical factor in the sorting of functional from non-functional RNA polymerase II (Pol II) transcripts (PMID: 34060620). SRRT protein is a key component of the nuclear cap-binding complex (CBC), which allows it to modulate the expression of various miRNAs. The SRRT protein is widely expressed throughout the eukaryotes, but not in budding yeast. SRRT has been shown to play a vital role in stem-cell renewal, proliferation, hematopoiesis, and RNA-mediated gene silencing and regulation of miRNA biogenesis (PMID: 37345203). SRRT is involved in cellular proliferation and colony formation (tumorigenicity). Similarly, high SRRT expression has been found in cholangiocarcinoma. ARS2 showed ubiquitous expression, with the highest levels in mouse testes, heart, and liver and human heart and skeletal muscle (PMID: 18086880).

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

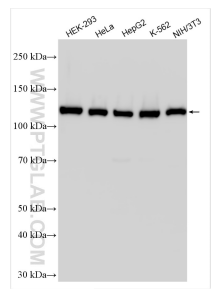
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

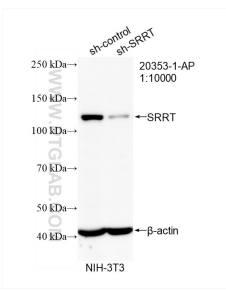
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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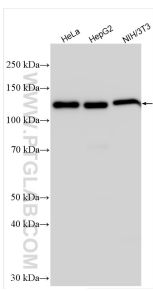
Selected Validation Data



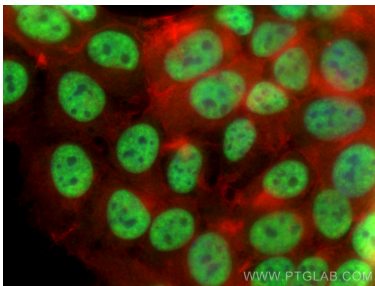
Various lysates were subjected to SDS PAGE followed by western blot with 20353-1-AP (SRRT antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



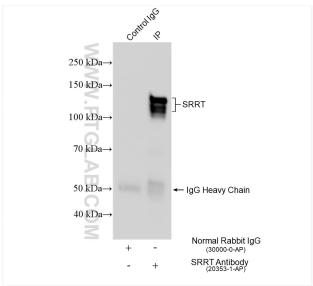
WB result of SRRT antibody (20353-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SRRT transfected NIH/3T3 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 20353-1-AP (SRRT antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SRRT antibody (20353-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



IP result of anti-SRRT (IP:20353-1-AP, 4ug; Detection:20353-1-AP 1:30000) with Jurkat cells lysate 1440 ug.