

For Research Use Only

# SRP14 Polyclonal antibody

Catalog Number: 11528-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

11528-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2099

### GenBank Accession Number:

BC035495

### GeneID (NCBI):

6727

### UNIPROT ID:

P37108

### Full Name:

signal recognition particle 14kDa (homologous Alu RNA binding protein)

### Calculated MW:

136 aa, 15 kDa

### Observed MW:

18 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

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: A549 cells, HeLa cells, human heart tissue

IP: A549 cells,

IF/ICC: HepG2 cells,

## Background Information

Signal recognition particle(SRP) acts in three distinct ways: 1 it binds to the signal sequence of the nascent polypeptide to be translocated, which is exposed on the surface of the translating ribosome; 2 it temporarily retards the nascent polypeptide from further elongation; 3 it mediates docking of the SRP-ribosome-nascent polypeptide chain complex to the RER membrane via the heterodimeric SRP-receptor (SR). SRP14, also named as 18 kDa Alu RNA-binding protein, is a 136 amino acid protein. Signal recognition particle consists of a 7S RNA molecule of 300 nucleotides and six protein subunits: SRP72, SRP68, SRP54, SRP19, SRP14 and SRP9. SRP14 protein is a component of signal-recognition-particle that has a crucial role in targeting secretory proteins to the rough endoplasmic reticulum membrane. SRP9 together with SRP14 and the Alu portion of the SRP RNA, constitutes the elongation arrest domain of SRP. SRP14 form a heterodimer with SRP9, which recognizes Alu RNA and the related 7SL RNA.

## Notable Publications

Author	Pubmed ID	Journal	Application
Evan P Booy	30247708	Nucleic Acids Res	WB,IP
Evan P Booy	33410401	J Biol Chem	WB
Dianrong Li	31420216	Mol Cell	WB

## 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

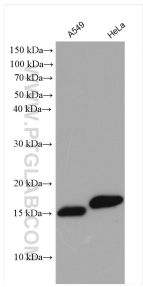
For technical support and original validation data for this product please contact:

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

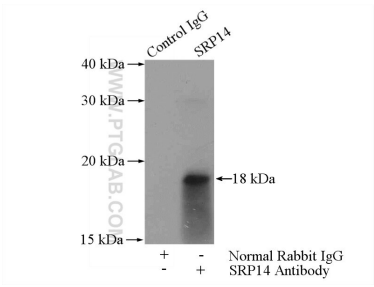
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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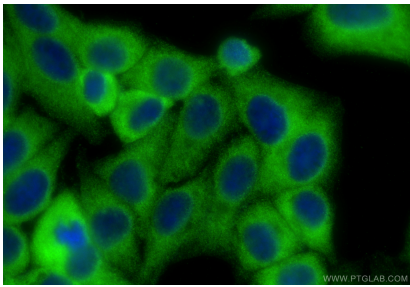
Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 11528-1-AP (SRP14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SRP14 (IP:11528-1-AP, 4ug; Detection:11528-1-AP 1:300) with A549 cells lysate 1600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using SRP14 antibody (11528-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).