

For Research Use Only

# SRP54 Polyclonal antibody

Catalog Number: 17976-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 17976-1-AP	<b>GenBank Accession Number:</b> BC003389	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6729	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> signal recognition particle 54kDa	<b>IHC 1:20-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 54 kDa	
<b>Immunogen Catalog Number:</b> AG12166	<b>Observed MW:</b> 54 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, NIH/3T3 cells
<b>Cited Applications:</b> IP, WB	<b>IP :</b> HeLa cells,
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human breast cancer tissue,
<b>Cited Species:</b> human	<b>IF :</b> HepG2 cells,

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

## Background Information

The signal recognition particle (SRP) is a ribonucleoprotein complex that mediates the targeting of proteins to the endoplasmic reticulum (ER). The complex consists of a 7S (or 7SL) RNA and 6 different proteins, and signal recognition particle 54 (SRP54) is one of them. SRP54 binds to the signal sequence of presecretory protein as they emerge from the translating ribosomes, and then transfers them to translocating chain-associating membrane protein (TRAM). This antibody specifically recognizes the 54kd SRP54 protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Piazzon Nathalie N	23221635	Nucleic Acids Res	WB,IP

## Storage

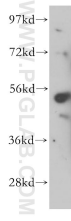
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

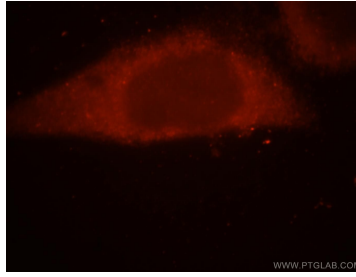
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

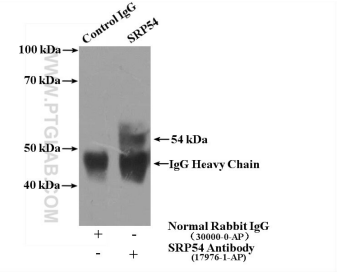
## Selected Validation Data



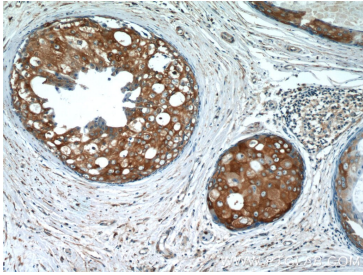
HeLa cells were subjected to SDS PAGE followed by western blot with 17976-1-AP (SRP54 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



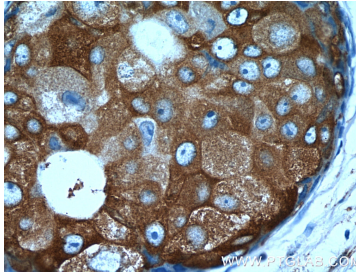
Immunofluorescent analysis of HepG2 cells, using SRP54 antibody 17976-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-SRP54 (IP:17976-1-AP, 4ug; Detection:17976-1-AP 1:500) with HeLa cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17976-1-AP (SRP54 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 17976-1-AP (SRP54 Antibody) at dilution of 1:50 (under 40x lens).