

For Research Use Only

# SRP54 Recombinant antibody

Catalog Number: 84014-5-RR



## Basic Information

<b>Catalog Number:</b> 84014-5-RR	<b>GenBank Accession Number:</b> BC003389	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 600 µg/ml	<b>GeneID (NCBI):</b> 6729	<b>CloneNo.:</b> 241125D6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P61011	<b>Recommended Dilutions:</b> WB 1:2000-1:12000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> signal recognition particle 54kDa	
<b>Immunogen Catalog Number:</b> AG2327	<b>Calculated MW:</b> 54 kDa	
	<b>Observed MW:</b> 54 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse

**Positive Controls:**

**WB :** HeLa cells, human placenta tissue, HEK-293 cells, MCF-7 cells, Jurkat cells, RAW 264.7 cells, NIH/3T3 cells

**IF/ICC :** HeLa cells,

## 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).

## 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**

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

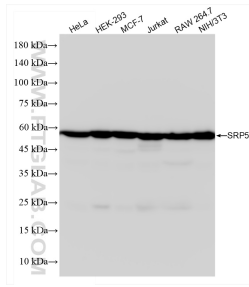
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

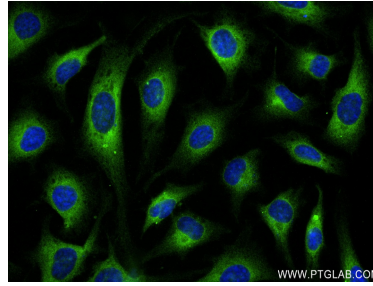
W: [ptgcn.com](http://ptgcn.com)

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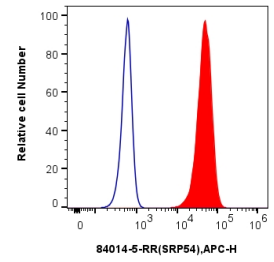
## Selected Validation Data



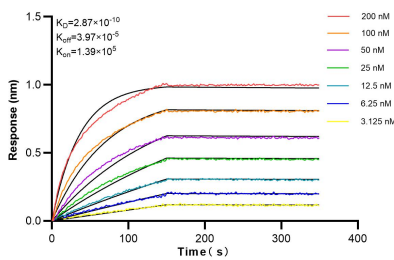
Various lysates were subjected to SDS PAGE followed by western blot with 84014-5-RR (SRP54 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using SRP54 antibody (84014-5-RR, Clone: 241125D6) at dilution of 1:150 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug Srp54 Recombinant Antibody (84014-5-RR, Clone:241125D6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84014-5-RR against Human SRP54 were performed. The affinity constant is 0.287 nM.