

For Research Use Only

SRP54 Polyclonal antibody

Catalog Number: 11729-1-AP

5 Publications



Basic Information

Catalog Number:

11729-1-AP

Size:

150ul, Concentration: 387 ug/ml by Nanodrop and 387 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2327

GenBank Accession Number:

BC003389

GeneID (NCBI):

6729

UNIPROT ID:

P61011

Full Name:

signal recognition particle 54kDa

Calculated MW:

54 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human

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 : human placenta tissue, NIH/3T3 cells

IP : human placenta tissue,

IHC : human breast cancer tissue, human placenta tissue

IF/ICC : HepG2 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).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------------|-----------|----------------------------|-------------|
| Dianrong Li | 31420216 | Mol Cell | |
| Masashi Ueda | 24388981 | Biochem Biophys Res Commun | WB |
| Ren Yong-Feng YF | 23468895 | PLoS One | 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

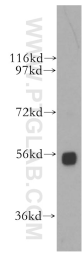
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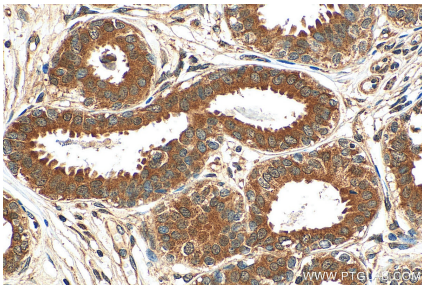
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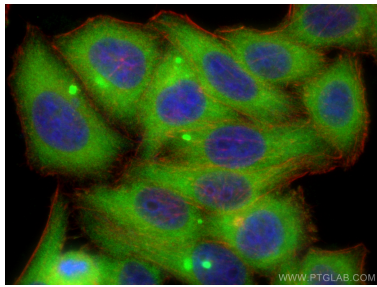
Selected Validation Data



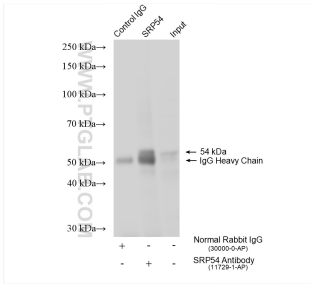
human placenta tissue were subjected to SDS PAGE followed by western blot with 11729-1-AP (SRP54 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11729-1-AP (SRP54 antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using SRP54 antibody (11729-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



IP result of anti-SRP54 (IP:11729-1-AP, 4ug; Detection:11729-1-AP 1:300) with human placenta tissue lysate 1015 ug.