

For Research Use Only

SRP19 Polyclonal antibody

Catalog Number: 16033-1-AP **4 Publications**



Basic Information

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| Catalog Number: 16033-1-AP | GenBank Accession Number: BC010947 | Purification Method: Antigen affinity purification |
| Size: 500 µg/ml | GeneID (NCBI): 6728 | Recommended Dilutions: WB 1:500-1:2000 |
| Source: Rabbit | UNIPROT ID: P09132 | IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate |
| Isotype: IgG | Full Name: signal recognition particle 19kDa | IF 1:20-1:200 |
| Immunogen Catalog Number: AG8903 | Calculated MW: 144 aa, 16 kDa | |
| | Observed MW: 18-25 kDa | |

Applications

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| Tested Applications: IF/ICC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: WB | WB : human liver tissue, A549 cells, HeLa cells, K-562 cells, mouse kidney tissue, mouse liver tissue, mouse ovary tissue, Raji cells |
| Species Specificity: human, mouse, rat | IP : mouse kidney tissue, |
| Cited Species: human | IF : HeLa cells, |

Background Information

The signal recognition particle (SRP) is one of the few functional small RNP particles. The SRP couples the synthesis of membrane and secretory proteins across or into the endoplasmic reticulum (ER) membrane in eukaryotes, as well as across the bacterial plasma membrane, and chloroplast thylakoid membranes. The mammalian SRP is composed of a 7S (or 7SL) RNA and six different proteins, SRP9, SRP14, SRP19, SRP54, SRP68 and SRP72. All of the components of SRP, including SRP RNA, participate directly in the overall protein targeting process. SRP19 binds directly to 7S RNA and mediates binding of the 54 kDa subunit of the SRP. SRP19 was shown to significantly enhance SRP54 attachment to helix 8 of 7SL RNA. Binding of SRP19 leads to restructuring of both helix 6 and 8, causing local changes at the SRP54-binding site. This antibody is a rabbit polyclonal antibody raised against full length SRP19 of human origin.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------------------|-----------|-------------------|-------------|
| Joseph Russo | 28129347 | PLoS One | WB |
| Anne-Sophie Gribling-Burrer | 28115638 | Nucleic Acids Res | WB |
| Diego Acosta-Alvear | 30582518 | Elife | WB |

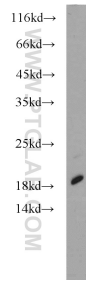
Storage

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

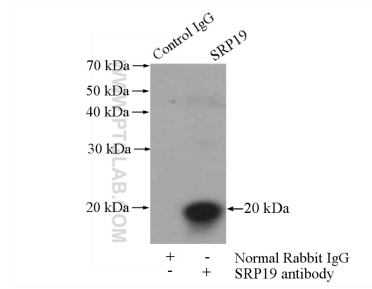
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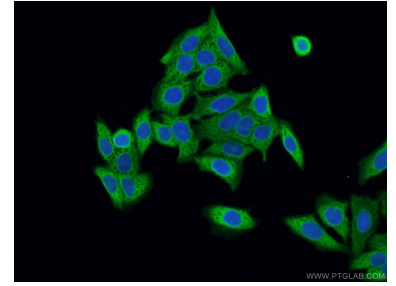
Selected Validation Data



human liver tissue were subjected to SDS PAGE followed by western blot with 16033-1-AP (SRP19 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-SRP19 (IP:16033-1-AP, 4ug; Detection:16033-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



Immunofluorescent analysis of HeLa cells using 16033-1-AP (SRP19 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).