

For Research Use Only

SRP19 Polyclonal antibody

Catalog Number: 16033-1-AP

5 Publications



Basic Information

Catalog Number: 16033-1-AP	GenBank Accession Number: BC010947	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 6728	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P09132	
Isotype: IgG	Full Name: signal recognition particle 19kDa	
Immunogen Catalog Number: AG8903	Calculated MW: 144 aa, 16 kDa	
	Observed MW: 18-25 kDa	

Applications

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

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

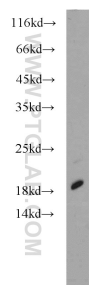
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

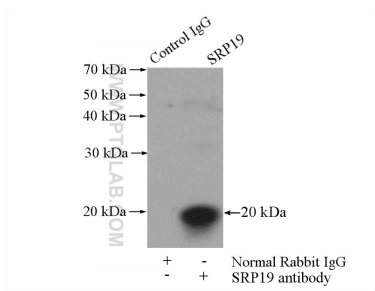
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

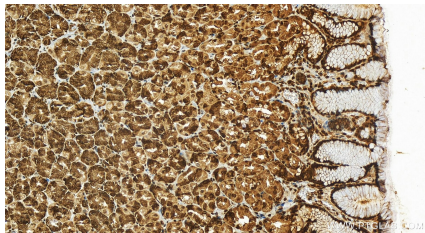
Selected Validation Data



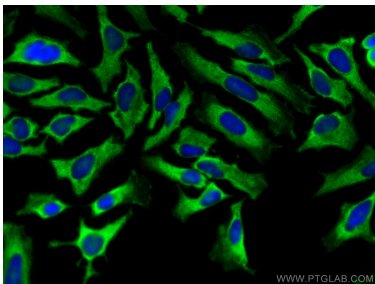
human liver tissue were subjected to SDS PAGE followed by western blot with 16033-1-AP (SRP19 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 16033-1-AP (SRP19 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using SRP19 antibody (16033-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).