

For Research Use Only

RARS Polyclonal antibody

Catalog Number: 27344-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

27344-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26390

GenBank Accession Number:

BC000528

GeneID (NCBI):

5917

UNIPROT ID:

P54136

Full Name:

arginyl-tRNA synthetase

Calculated MW:

75 kDa

Observed MW:

67 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human

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 : HeLa cells, A431 cells, U-251 cells

IP : HeLa cells,

IHC : human heart tissue, human breast cancer tissue

Background Information

RARS, also named ArgRS (arginyl-tRNA synthetase), belongs to the class-I aminoacyl-tRNA synthetase family which catalyze the aminoacylation of tRNA by their cognate amino acid. In higher eukaryotes, one of the two arginyl-tRNA synthetases (ArgRSs) has evolved to have an extended N-terminal domain that plays a crucial role in protein synthesis and cell growth and in integration into the multisynthetase complex (MSC) (PMID:25288775). RARS has two isoforms with the molecular weight of 75 and 67 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Dennis J Hsu	36608131	Sci Adv	WB
Chao Yang	38759626	Mol Cell	WB
Dennis J Hsu	36711568	bioRxiv	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

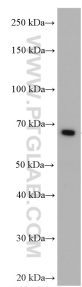
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

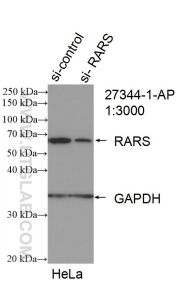
E: proteintech@ptglab.com
W: ptglab.com

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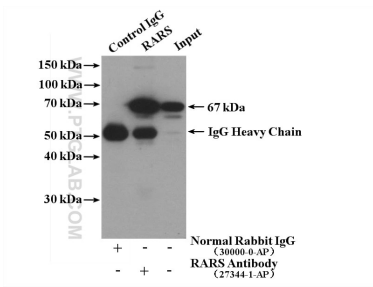
Selected Validation Data



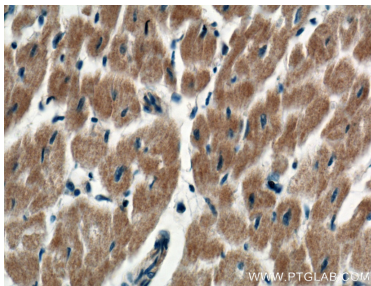
HeLa cells were subjected to SDS PAGE followed by western blot with 27344-1-AP (RARS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



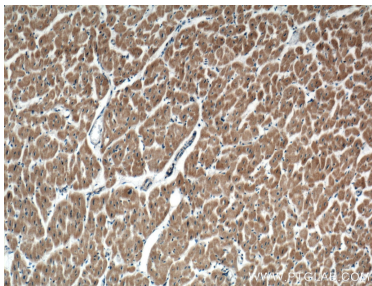
WB result of RARS antibody (27344-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RARS transfected HeLa cells.



IP result of anti-RARS (IP:27344-1-AP, 4ug; Detection:27344-1-AP 1:500) with HeLa cells lysate 3200 ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 27344-1-AP (RARS antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 27344-1-AP (RARS antibody) at dilution of 1:200 (under 10x lens).