

For Research Use Only

# RARS Monoclonal antibody

Catalog Number: 66815-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 66815-1-Ig	<b>GenBank Accession Number:</b> BC000528	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5917	<b>CloneNo.:</b> 1C8G4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P54136	<b>Recommended Dilutions:</b> WB 1:3000-1:8000 IHC 1:200-1:800 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2b	<b>Full Name:</b> arginyl-tRNA synthetase	
<b>Immunogen Catalog Number:</b> AG26399	<b>Calculated MW:</b> 75 kDa	
	<b>Observed MW:</b> 67 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat

**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, HSC-T6 cells, MCF-7 cells, A431 cells, HEK-293 cells, HepG2 cells, NIH/3T3 cells

**IHC:** mouse brain tissue,

**IF/ICC:** HeLa cells,

## 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.

## 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**

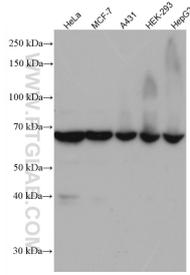
For technical support and original validation data for this product please contact:

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

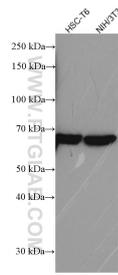
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

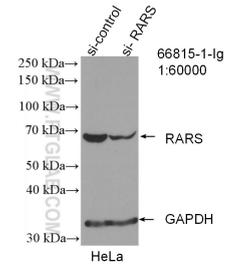
## Selected Validation Data



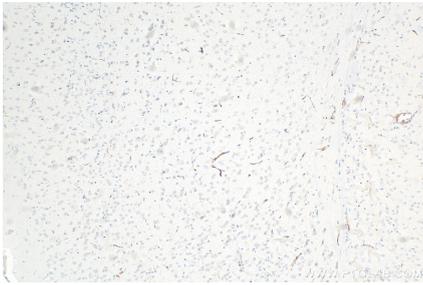
Various lysates were subjected to SDS PAGE followed by western blot with 66815-1-Ig (RARS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



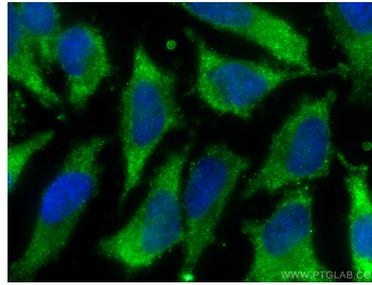
Various lysates were subjected to SDS PAGE followed by western blot with 66815-1-Ig (RARS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



WB result of RARS antibody (66815-1-Ig; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RARS transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66815-1-Ig (RARS antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using RARS antibody (66815-1-Ig, Clone: 1C8G4) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).