

For Research Use Only

# HARS Recombinant antibody, PBS Only (Capture)

Catalog Number: 83497-1-PBS



## Basic Information

<b>Catalog Number:</b> 83497-1-PBS	<b>GenBank Accession Number:</b> BC011807	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 3035	<b>CloneNo.:</b> 240495C1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P12081	
<b>Isotype:</b> IgG	<b>Full Name:</b> histidyl-tRNA synthetase	
<b>Immunogen Catalog Number:</b> AG9333	<b>Calculated MW:</b> 509 aa, 57 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), Cytometric bead array,  
Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Background Information

HARS is a cytoplasmic enzyme that belongs to the class II family of aminoacyl-tRNA synthetases. The enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. HARS is located in a head-to-head orientation with HARS1 on chromosome five, where the homologous genes share a bidirectional promoter. The gene product is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

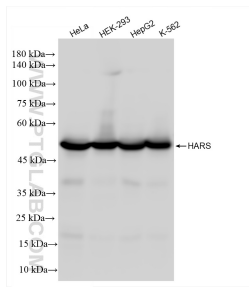
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

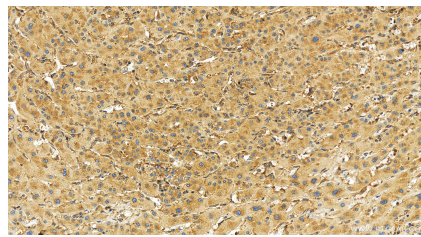
W: [ptgcn.com](http://ptgcn.com)

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

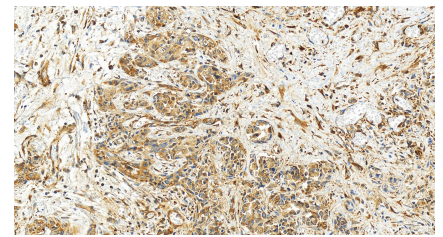
## Selected Validation Data



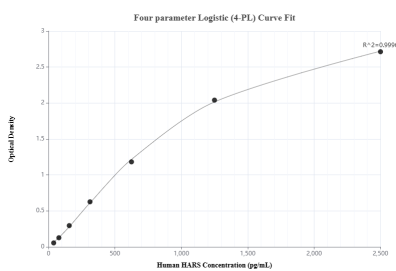
Various lysates were subjected to SDS PAGE followed by western blot with 83497-1-RR (HARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



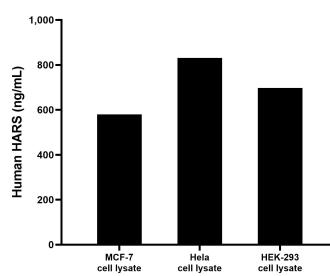
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



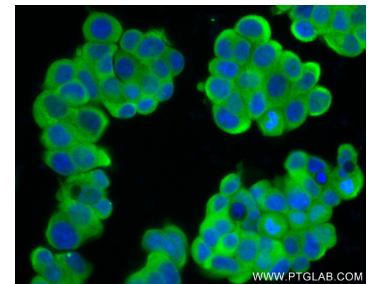
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



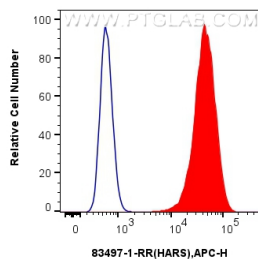
Sandwich ELISA standard curve of MP00486-1, Human HARS Recombinant Matched Antibody Pair - PBS only. 83497-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag9333. 83497-2-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL



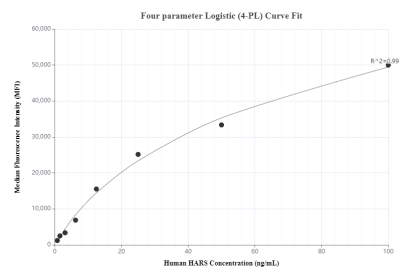
MCF-7, HeLa and HEK-293 cell lysates were measured. The human HARS concentration of detected samples was determined to be 579.62 ng/mL (based on a 4.3 mg/mL extract load) in MCF-7 cell lysate, 830.79 ng/mL (based on a 3.6 mg/mL extract load) in HeLa cell lysate and 698.03 ng/mL (based on a 3.4 mg/mL extract load) in HEK-293 cell lysate.



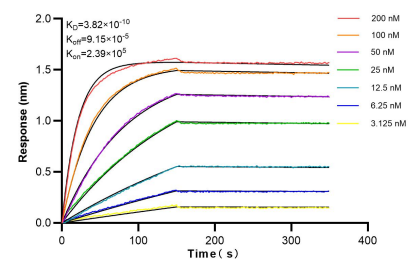
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HARS antibody (83497-1-RR, Clone: 240495C1) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.25 ug HARS Recombinant antibody (83497-1-RR, Clone:240495C1) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00486-1, HARS Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83497-1-PBS. Detection antibody: 83497-2-PBS. Standard: Ag9333. Range: 0.78-100 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 83497-1-RR against Human HARS were performed. The affinity constant is 0.382 nM.