

For Research Use Only

# HARS Recombinant antibody, PBS Only (Capture)

Catalog Number: 83497-1-PBS



## Basic Information

Catalog Number: 83497-1-PBS	GenBank Accession Number: BC011807	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3035	CloneNo.: 240495C1
Source: Rabbit	UNIPROT ID: P12081	
Isotype: IgG	Full Name: histidyl-tRNA synthetase	
Immunogen Catalog Number: AG9333	Calculated MW: 509 aa, 57 kDa	
	Observed MW: 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 HARSL 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:

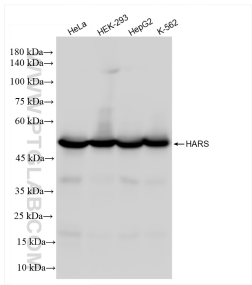
T: 4006900926

E: Proteintech-CN@ptglab.com

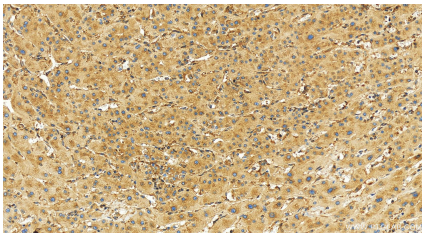
W: ptgcn.com

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

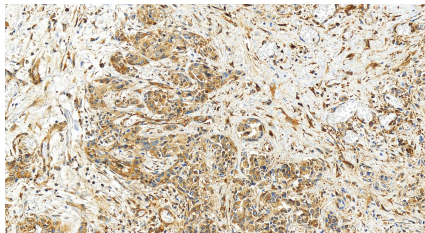
Selected Validation Data



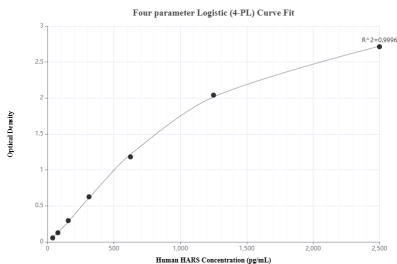
Various lysates were subjected to SDS PAGE followed by western blot with 83497-1-RR (HARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



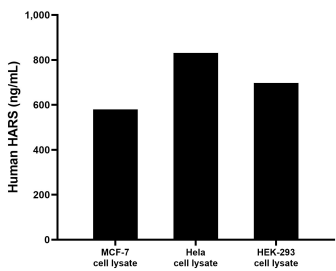
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83497-1-PBS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



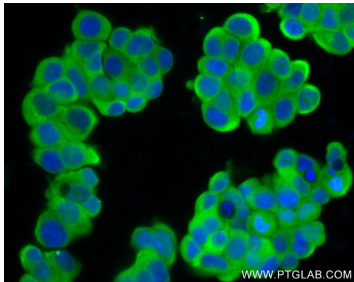
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83497-1-PBS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



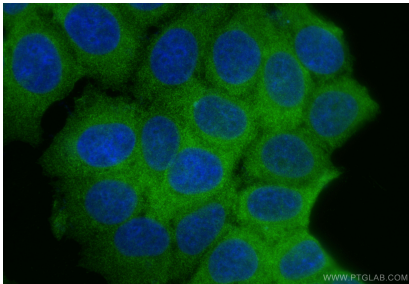
Sandwich ELISA standard curve of MP00486-1, Human HARS Recombinant Matched Antibody Pair - PBS only. 83497-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag9333. 83497-2-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL



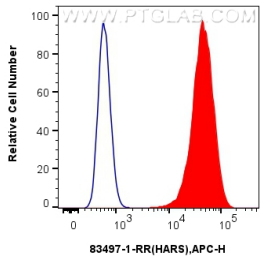
MCF-7, HeLa and HEK-293 cell lysates were measured. The human HARS concentration of detected samples was determined to be 579.62 ng/mL (based on a 4.3 mg/mL extract load) in MCF-7 cell lysate, 830.79 ng/mL (based on a 3.6 mg/mL extract load) in HeLa cell lysate and 698.03 ng/mL (based on a 3.4 mg/mL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



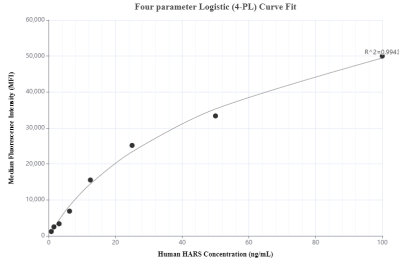
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HARS antibody (83497-1-RR, Clone: 240495C1 ) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83497-1-PBS in a different storage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



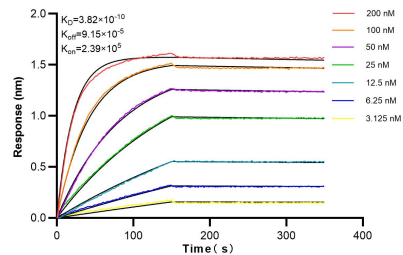
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HARS antibody (83497-1-RR, Clone: 240495C1 ) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83497-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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



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