

For Research Use Only

# HARS Recombinant antibody

Catalog Number: 83497-1-RR



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>83497-1-RR       | <b>GenBank Accession Number:</b><br>BC011807  | <b>Purification Method:</b><br>Protein A purification                                       |
| <b>Size:</b><br>1000 ug/ml                 | <b>GeneID (NCBI):</b><br>3035                 | <b>CloneNo.:</b><br>240495C1  |
| <b>Source:</b><br>Rabbit                   | <b>UNIPROT ID:</b><br>P12081                  | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:125-1:500<br>IF/ICC 1:125-1:500 |
| <b>Isotype:</b><br>IgG                     | <b>Full Name:</b><br>histidyl-tRNA synthetase |   |
| <b>Immunogen Catalog Number:</b><br>AG9333 | <b>Calculated MW:</b><br>509 aa, 57 kDa       |   |
|  | <b>Observed MW:</b><br>52 kDa                 |   |

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Species Specificity:**  
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, HEK-293 cells, HepG2 cells, K-562 cells  
**IHC :** human intrahepatic cholangiocarcinoma tissue,  
**IF/ICC :** MCF-7 cells,

## 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 -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**

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

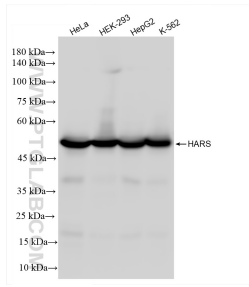
T: 4006900926

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

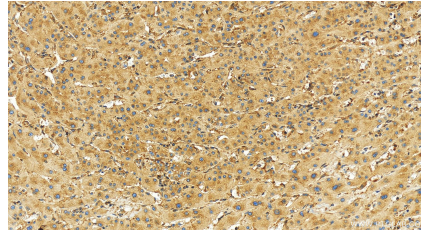
W: [ptgcn.com](http://ptgcn.com)

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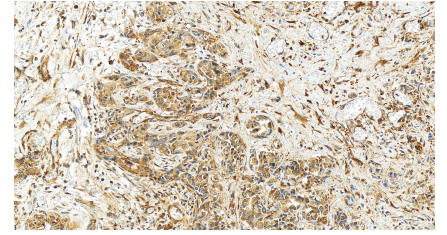
## Selected Validation Data



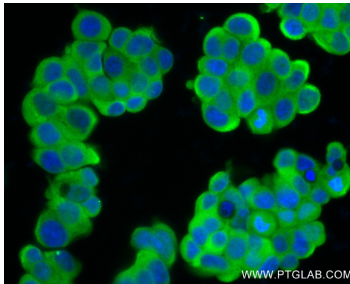
Various lysates were subjected to SDS PAGE followed by western blot with 83497-1-RR (HARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



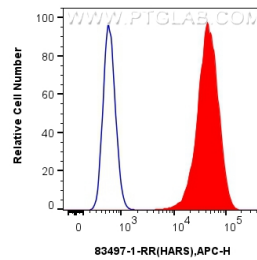
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



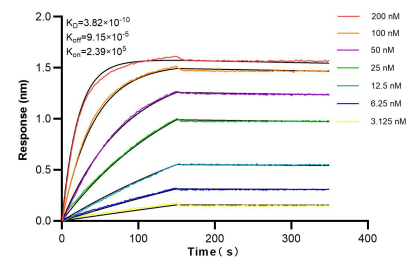
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83497-1-RR (HARS antibody) at dilution of 1:250 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



$1 \times 10^6$  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).



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