For Research Use Only

HARS Recombinant antibody

Catalog Number:83497-1-RR

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Basic Information

Catalog Number:
83497-1-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9333

GenBank Accession Number:
BC011807

GeneID (NCBI):
3035

UNIPROT ID:
P12081

Full Name:
histidyl-tRNA synthetase

Calculated MW:
509 aa, 57 kDa

Observed MW:
52 kDa

Purification Method:
Protein A purification

CloneNo.:
240495C1

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:125-1:500
IF/ICC 1:125-1:500

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.

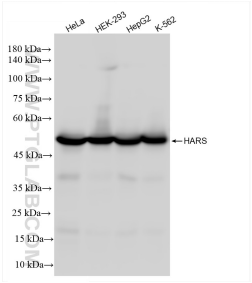
Storage

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

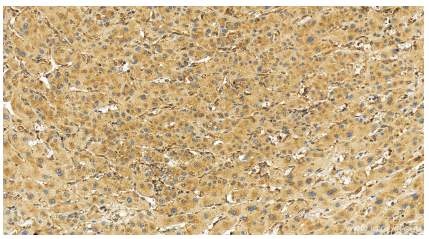
***** 20ul sizes contain 0.1% BSA**

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

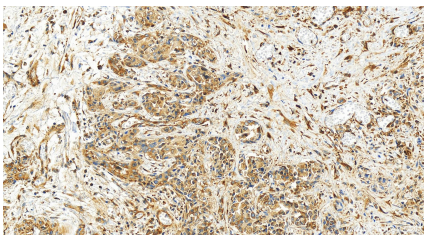
Selected Validation Data



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).



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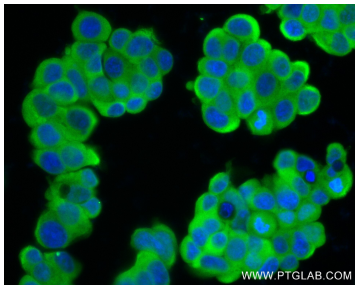
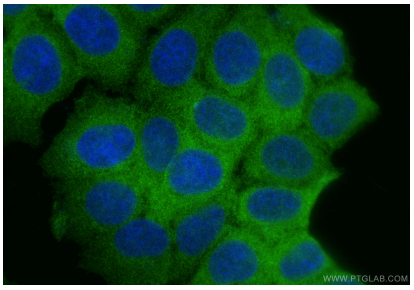
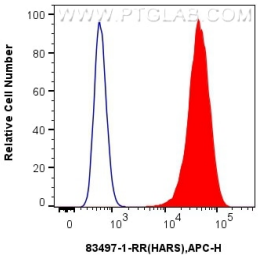


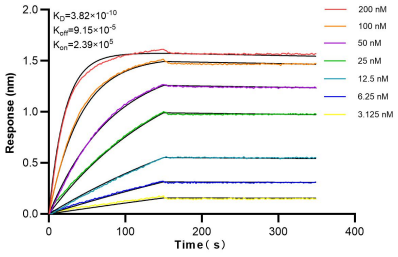
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HARS antibody (83497-1-RR, Clone: 240495C1) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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).



1x10^6 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).



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