

For Research Use Only

# HARS Recombinant antibody

Catalog Number: 83497-3-RR



## Basic Information

<b>Catalog Number:</b> 83497-3-RR	<b>GenBank Accession Number:</b> BC011807	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3035	<b>CloneNo.:</b> 240495C2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P12081	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:125-1:500 FC (Intra): 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<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

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HEK-293 cells, HepG2 cells, K-562 cells <b>IF/ICC :</b> MCF-7 cells, <b>FC (Intra) :</b> MCF-7 cells, HeLa 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

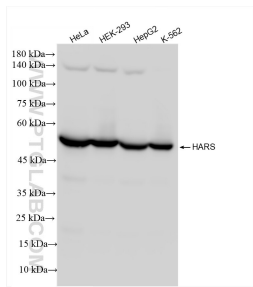
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

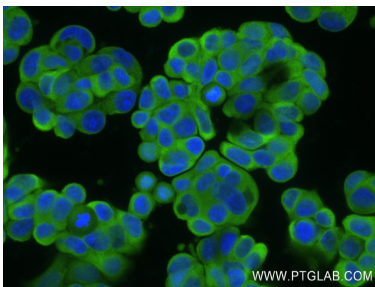
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



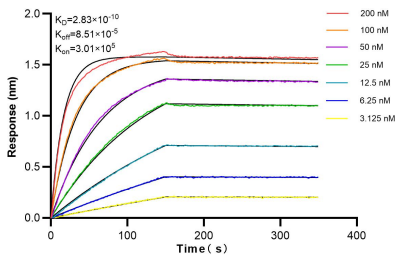
Various lysates were subjected to SDS PAGE followed by western blot with 83497-3-RR (HARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HARS antibody (83497-3-RR, Clone: 240495C2 ) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug HARS Recombinant antibody (83497-3-RR, Clone:240495C2) and APC-Conjugated 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 83497-3-RR against Human HARS were performed. The affinity constant is 0.283 nM.