

For Research Use Only

# HARS Recombinant antibody

Catalog Number: 83497-3-RR



## Basic Information

Catalog Number:	83497-3-RR	GenBank Accession Number:	BC011807	Purification Method:	Protein A purification
Concentration:	1000 µg/ml	GenID (NCBI):	3035	Clone No.:	240495C2
Source:	Rabbit	UNIPROT ID:	P12081	Recommended Dilutions:	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
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, IF/ICC, FC (Intra), ELISA	Positive Controls:	HeLa cells, HEK-293 cells, HepG2 cells, K-562 cells
Species Specificity:	human	IF/ICC:	MCF-7 cells,

FC (Intra): 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.

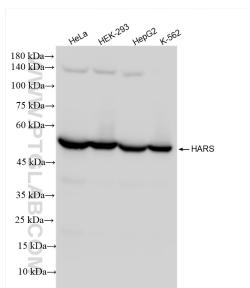
## Storage

**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**

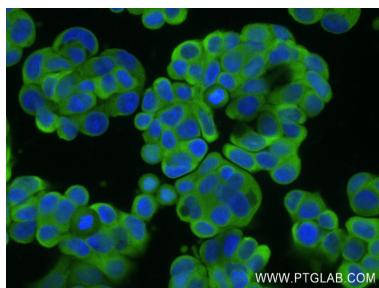
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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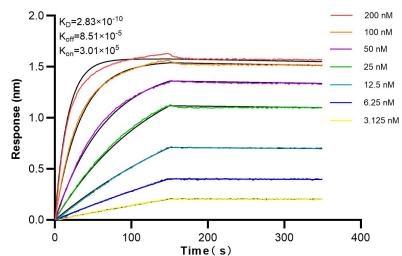
## Selected Validation Data



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.



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).



Biacore BLI kinetic assays of 83497-3-RR against Human HARS were performed. The affinity constant is 0.283 nM.