

For Research Use Only

HARS Recombinant antibody

Catalog Number: 83497-3-RR



Basic Information

Catalog Number:

83497-3-RR

Concentration:

1000 μ g/ml

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.:

240495C2

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:125-1:500

FC (Intra): 0.25 μ g per 10^6 cells in a
100 μ l suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, K-562 cells

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:

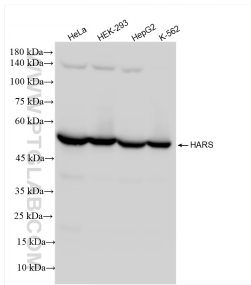
T: 4006900926

E: Proteintech-CN@ptglab.com

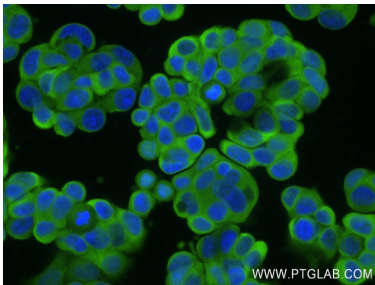
W: ptgcn.com

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Selected Validation Data



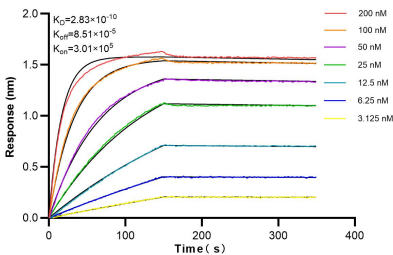
Various lysates were subjected to SDS PAGE followed by western blot with 83497-3-RR (HARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



1x10⁶ 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.