

For Research Use Only

# HARS Polyclonal antibody

Catalog Number: 16375-1-AP

Featured Product

3 Publications



## Basic Information

Catalog Number:

16375-1-AP

Size:

400 ug/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:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

**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** : mouse liver tissue, HeLa cells, human kidney tissue, K-562 cells, mouse brain tissue, mouse heart tissue, mouse lung tissue

**IHC** : human stomach tissue,

## 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 HARS1 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. The D364Y (Asp364-to-Tyr) mutation of HARS1 inhibits morphological differentiation of neuronal cells (PMID: 35380399).

## Notable Publications

Author	Pubmed ID	Journal	Application
Maria C Passarelli	35288656	Nat Cell Biol	WB
Fangchao Jiang	38754722	Neuroscience	WB
Wei Fan	38438409	Sci Rep	WB

## 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:

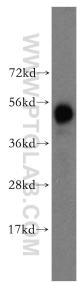
T: 4006900926

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

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

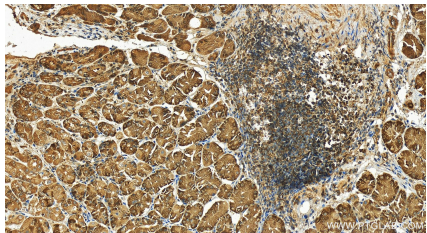
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Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 16375-1-AP (HARS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

WB result of HARS antibody (16375-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HARS transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 16375-1-AP (HARS antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).