

**HARS Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7567a****Specification**

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**HARS Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P12081</a>
Other Accession	<a href="#">Q61035</a> , <a href="#">Q2KI84</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57411
Antigen Region	49-78

**HARS Antibody (N-term) - Additional Information****Gene ID** 3035**Other Names**

Histidine--tRNA ligase, cytoplasmic, Histidyl-tRNA synthetase, HisRS, HARS, HRS

**Target/Specificity**

This HARS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-78 amino acids from the N-terminal region of human HARS.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HARS Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HARS Antibody (N-term) - Protein Information****Name** HARS1 ([HGNC:4816](#))

**Synonyms** HARS, HRS

**Function** Catalyzes the ATP-dependent ligation of histidine to the 3'- end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (His-AMP) (PubMed:[29235198](#)). Plays a role in axon guidance (PubMed:[26072516](#)).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:F1Q5D5}.

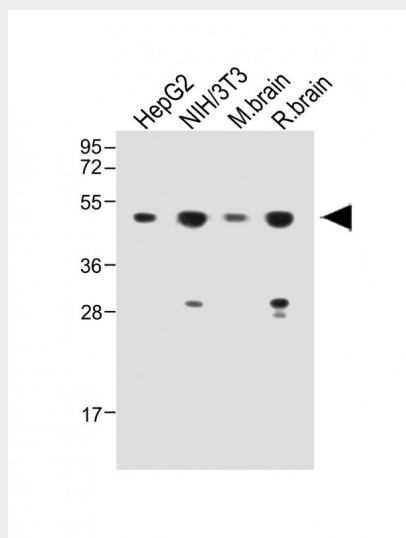
**Tissue Location**

Brain, heart, liver and kidney.

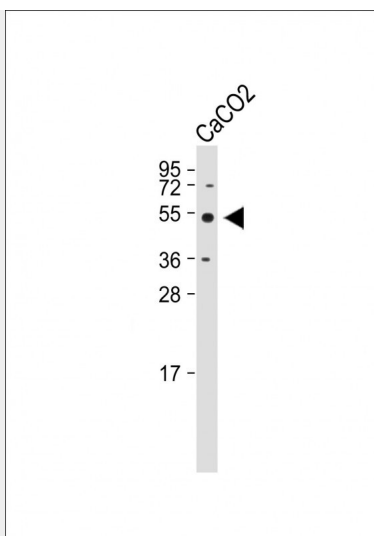
**HARS Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

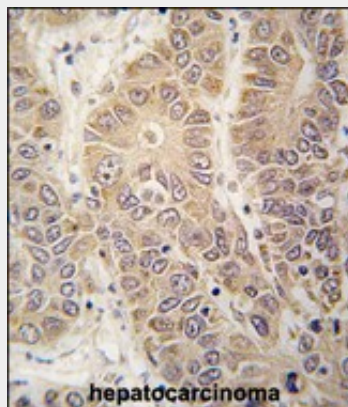
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HARS Antibody (N-term) - Images**

All lanes : Anti-HARS Antibody (N-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lane 3: Mouse brain whole tissue lysate Lane 4: Rat brain whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-HARS Antibody (N-term) at 1:1000 dilution + Caco2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with HARS antibody (N-term) (Cat.#AP7567a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

### **HARS Antibody (N-term) - Background**

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. HARS is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. This enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The protein is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

### **HARS Antibody (N-term) - References**

Levine, S.M., Arthritis Rheum. 56 (8), 2729-2739 (2007)  
Lu, Q., Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7626-7631 (2003)