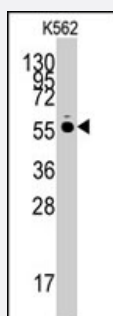


# HARS polyclonal antibody

Catalog # PAB2968

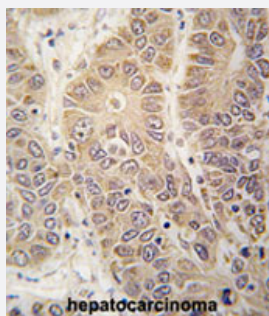
Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of HARS polyclonal antibody (Cat # PAB2968) in K-562 cell line lysates (35 ug/lane). HARS (arrow) was detected using the purified polyclonal antibody.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with HARS polyclonal antibody (Cat # PAB2968), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of HARS.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human HARS.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Ammonium sulfate precipitation

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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## Gene Info — HARS

<b>Entrez GeneID</b>	<a href="#">3035</a>
<b>Protein Accession#</b>	<a href="#">NP_002100;P12081</a>
<b>Gene Name</b>	HARS
<b>Gene Alias</b>	FLJ20491, HRS
<b>Gene Description</b>	histidyl-tRNA synthetase
<b>Omim ID</b>	<a href="#">142810</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a cytoplasmic enzyme which 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. The gene 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. [provided by RefSeq]

**Other Designations**

HisRS|histidine tRNA ligase 1, cytoplasmic|histidine transase|histidine-tRNA ligase

**Publication Reference**

- [Novel conformation of histidyl-transfer RNA synthetase in the lung: the target tissue in Jo-1 autoantibody-associated myositis.](#)

Levine SM, Raben N, Xie D, Askin FB, Tudor R, Mullins M, Rosen A, Casciola-Rosen LA.

Arthritis and Rheumatism 2007 Aug; 56(8):2729.

Application: IHC-P, WB, Human, Normal human tissues

- [TSG101 interaction with HRS mediates endosomal trafficking and receptor down-regulation.](#)

Lu Q, Hope LW, Brasch M, Reinhard C, Cohen SN.

PNAS 2003 Jun; 100(13):7626.

Application: WB, Human, HeLa cells

**Pathway**

- [Aminoacyl-tRNA biosynthesis](#)