Product Name: **HisRS Rabbit Polyclonal Antibody**
Catalog #: **APRab12040**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight	60kDa

Antigen Information

Gene Name	HARS
Alternative Names	HARS; HRS; Histidine--tRNA ligase; cytoplasmic; Histidyl-tRNA synthetase; HisRS
Gene ID	3035.0
SwissProt ID	P12081
Immunogen	The antiserum was produced against synthesized peptide derived from human HARS. AA range:460-509

Background

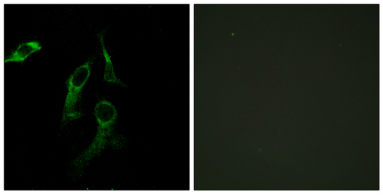
Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by

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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012],catalytic activity:ATP + L-histidine + tRNA(His) = AMP + diphosphate + L-histidyl-tRNA(His).,similarity:Belongs to the class-II aminoacyl-tRNA synthetase family.,similarity:Contains 1 WHEP-TRS domain.,tissue specificity:Brain, heart, liver and kidney.,

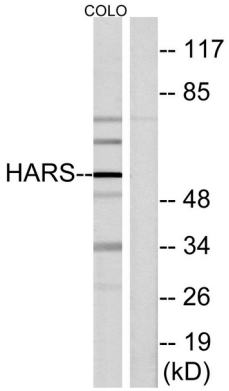
Research Area

Aminoacyl-tRNA biosynthesis;

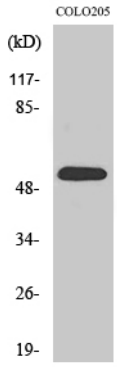
Image Data



Immunofluorescence analysis of HepG2 and HeLa cells, using HARS Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO cells, using HARS Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using HisRS Polyclonal Antibody diluted at 1: 2000