Product Name: TyrRS Rabbit Polyclonal Antibody
Catalog #: APRab19474

Summary

Production Name	TyrRS Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	YARS
Alternative Names	Tyrosine--tRNA ligase, cytoplasmic (EC 6.1.1.1) (Tyrosyl-tRNA synthetase) (TyrRS)
Gene ID	8565.0
SwissProt ID	P54577.The antiserum was produced against synthesized peptide derived from the C-terminal region of human YARS. AA range:451-500

Application

Dilution Ratio	WB 1:500-2000,IHC 1:50-300 ELISA 1:10000-20000
Molecular Weight	60kD

Background

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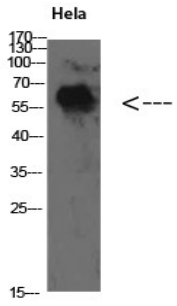
Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. [provided by RefSeq, Jul 2008],catalytic activity:ATP + L-tyrosine + tRNA(Tyr) = AMP + diphosphate + L-tyrosyl-tRNA(Tyr).,disease:Defects in YARS are the cause of Charcot-Marie-Tooth disease dominant intermediate type C (CMTDIC) [MIM:608323]. CMTDIC is a form of Charcot-Marie-Tooth disease characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec.,function:Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).,similarity:Belongs to the class-I aminoacyl-tRNA synthetase family.,similarity:Contains 1 tRNA-binding domain.,subunit:Homodimer.,

Research Area

Aminoacyl-tRNA biosynthesis;

Image Data



Western Blot analysis of Hela cells using TyrRS Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000

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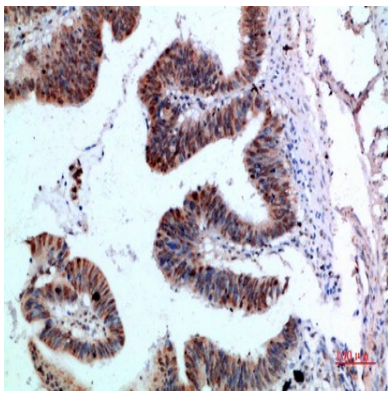
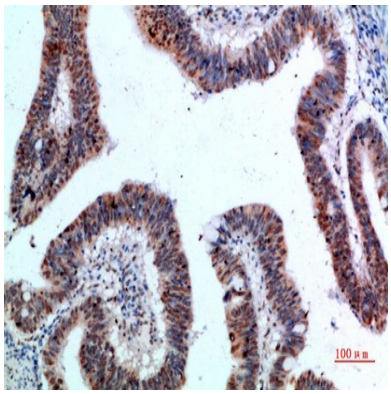


Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200



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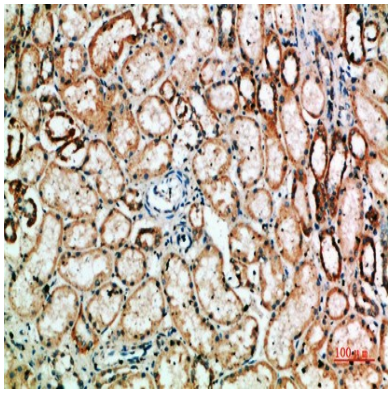
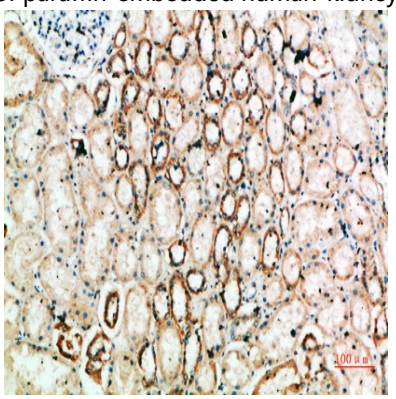


Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200



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Note

For research use only.