

产品名称: TyrRS Rabbit Polyclonal Antibody
产品货号: APRab19474



产品概述 (Summary)

产品名称 (Production Name)	TyrRS Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

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

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	60kDa

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研究背景 (Background)

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.

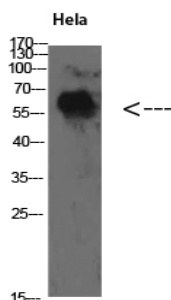
Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas 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.,

研究领域 (Research Area)

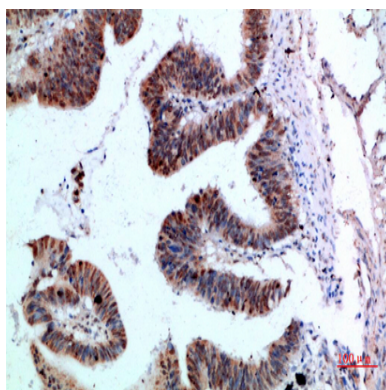
Aminoacyl-tRNA biosynthesis;

图片 (Image Data)

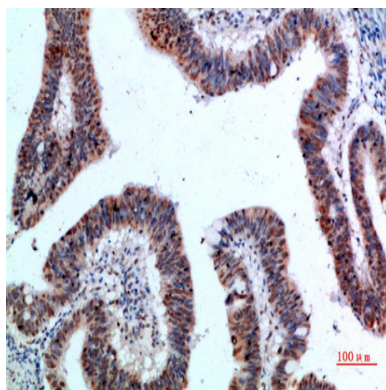


Western Blot analysis of HeLa cells using TyrRS Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000

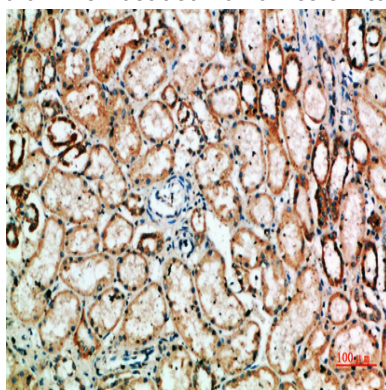
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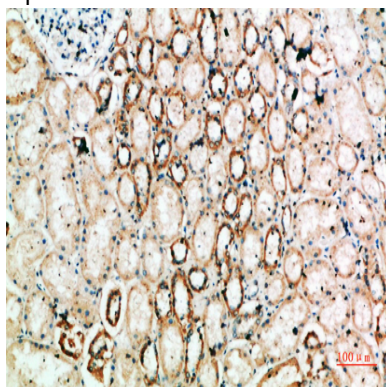
Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200



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



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



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

注意事项 (Note)

For research use only .