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TyrRS Polyclonal Antibody

Catalog # AP73981

Product Information

Application	WB, IHC-P, E
Primary Accession	P54577
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59143

Additional Information

Gene ID	8565
Other Names	Tyrosine--tRNA ligase, cytoplasmic (EC 6.1.1.1) (Tyrosyl-tRNA synthetase) (TyrRS)
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000 IHC-P~~WB 1:500-2000, ELISA 1:10000-20000 E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

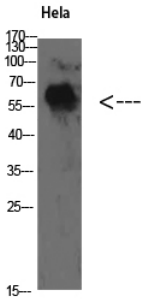
Protein Information

Name	YARS1 (HGNC:12840)
Function	Tyrosine--tRNA ligase that 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) (Probable) (PubMed:25533949). Also acts as a positive regulator of poly-ADP-ribosylation in the nucleus, independently of its tyrosine--tRNA ligase activity (PubMed:25533949). Activity is switched upon resveratrol-binding: resveratrol strongly inhibits the tyrosine-- tRNA ligase activity and promotes relocalization to the nucleus, where YARS1 specifically stimulates the poly-ADP-ribosyltransferase activity of PARP1 (PubMed:25533949).
Cellular Location	Cytoplasm. Nucleus Note=Cytoplasmic in normal conditions (PubMed:25533949). Resveratrol- binding in response to serum starvation promotes relocalization to the nucleus (PubMed:25533949).

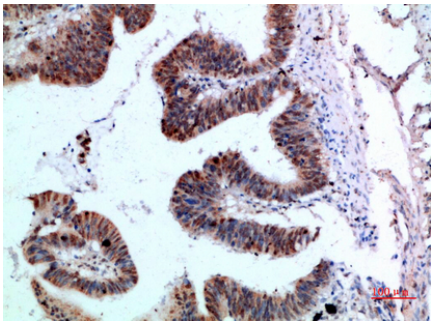
Background

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).

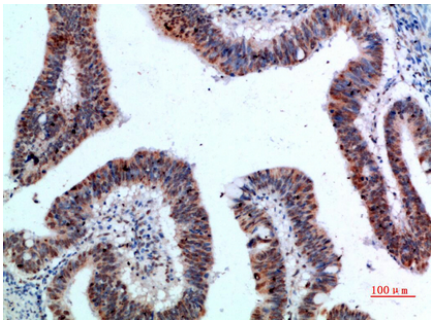
Images



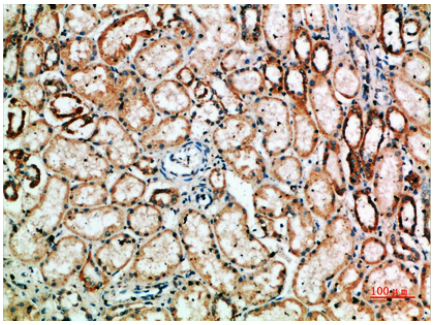
Western Blot analysis of Hela cells using TyrRS Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000



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

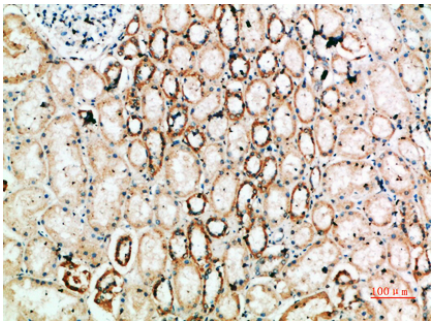


Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200



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

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



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