

TyrRS Polyclonal Antibody

Catalog # AP73981

Product Information

Application	WB
Primary Accession	<u>P54577</u>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59143

Additional Information

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

Protein Information

Name	YARS1 (<u>HGNC:12840</u>)
Function	TyrosinetRNA 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: <u>25533949</u>). Also acts as a positive regulator of poly-ADP-ribosylation in the nucleus, independently of its tyrosinetRNA ligase activity (PubMed: <u>25533949</u>). 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: <u>25533949</u>).
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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.