

DATASHEET

Tyrosyl-tRNA Synthetase Rabbit Polyclonal Antibody

CAT. NO. APA13785

KEY FEATURES

Target	Tyrosyl-tRNA Synthetase	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

BACKGROUND

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) 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) . Also acts as a positive regulator of poly-ADP-ribosylation in the nucleus, independently of its tyrosine--tRNA ligase activity . 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 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
----	----------------

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

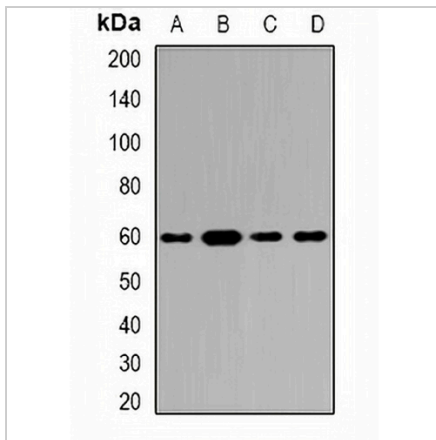
Description	Rabbit polyclonal antibody to Tyrosyl-tRNA Synthetase
Specificity	Recognizes endogenous levels of Tyrosyl-tRNA Synthetase protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Tyrosyl-tRNA Synthetase
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 59 kD; Observed: 59 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Tyrosine--tRNA ligase, cytoplasmic; Tyrosyl-tRNA synthetase; TyrRS
Gene Symbol	YARS
Entrez Gene	8565(Human); 107271(Mouse); 313047(Rat)
SwissProt	P54577(Human); Q91WQ3(Mouse); Q4KM49(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET**Tyrosyl-tRNA Synthetase Rabbit Polyclonal Antibody**

CAT. NO. APA13785

DATA

Western blot analysis of Tyrosyl-tRNA Synthetase expression in HeLa (A), SKOV3 (B), mouse brain (C), rat brain (D) whole cell lysates. (Predicted band size: 59 kD; Observed band size: 59 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.