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YARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7838b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9Y2Z4
Other Accession	Q5I0L3, Q8BYL4
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53199
Antigen Region	399-427

Additional Information

Gene ID	51067
Other Names	Tyrosine--tRNA ligase, mitochondrial, Tyrosyl-tRNA synthetase, TyrRS, YARS2
Target/Specificity	This YARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 399-427 amino acids from the C-terminal region of human YARS2.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	YARS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	YARS2
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).

Cellular Location Mitochondrion matrix

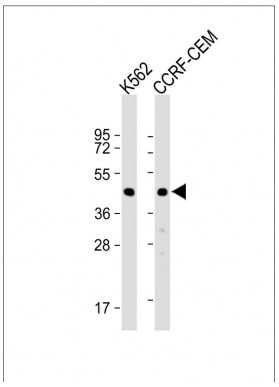
Background

YARS2 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).

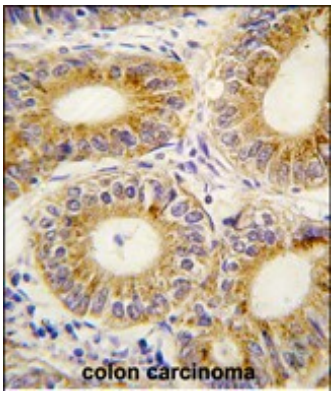
References

Bonnefond,L., Structure 15 (11), 1505-1516 (2007)
Bonnefond,L., RNA 11 (5), 558-562 (2005)
Bonnefond,L., Biochemistry 44 (12), 4805-4816 (2005)

Images



All lanes : Anti-YARS2 Antibody (C-term) at 1:1000 dilution Lane 1: K562 whole cell lysate Lane 2: CCRF-CEM whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with YARS2 antibody (C-term) (Cat.#AP7838b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- Mutation of the mitochondrial tyrosyl-tRNA synthetase gene, YARS2, causes myopathy, lactic acidosis, and sideroblastic anemia--MLASA syndrome.

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