

**YARS2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7838b****Specification**

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**YARS2 Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">Q9Y2Z4</a>
Other Accession	<a href="#">Q5I0L3</a> , <a href="#">Q8BYL4</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	399-427

**YARS2 Antibody (C-term) - 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~~1:10~50

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.

**YARS2 Antibody (C-term) - 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).

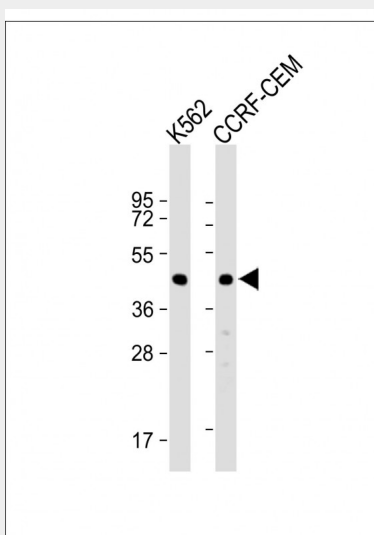
**Cellular Location**  
Mitochondrion matrix

### YARS2 Antibody (C-term) - Protocols

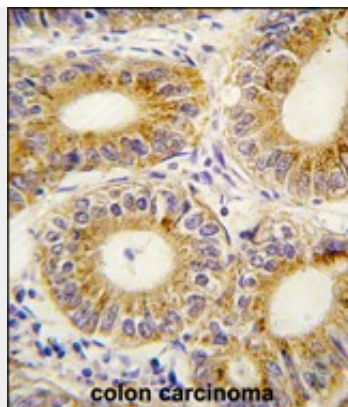
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### YARS2 Antibody (C-term) - 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.

#### **YARS2 Antibody (C-term) - 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).

#### **YARS2 Antibody (C-term) - 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)

#### **YARS2 Antibody (C-term) - Citations**

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