

## YARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7838b

## **Specification**

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

Application IHC-P, WB,E Primary Accession O9Y2Z4

Other Accession Q5I0L3, Q8BYL4

Reactivity
Predicted
Host
Clonality
Isotype
Antigen Region

Human
Mouse, Rat
Rabbit
Polyclonal
Rabbit IgG
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).

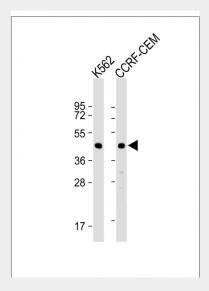
**Cellular Location**Mitochondrion matrix

# YARS2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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  $\mu$ g per lane. Secondary Goat Anti-Rabbit lgG, (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.