

# Anti-YARS2/TyRS antibody ab228957

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## Overview

<b>Product name</b>	Anti-YARS2/TyRS antibody
<b>Description</b>	Rabbit polyclonal to YARS2/TyRS
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human YARS2/TyRS (internal sequence). The exact sequence is proprietary. Database link: <a href="#">Q9Y2Z4</a>
<b>Positive control</b>	IHC-P: Human colon carcinoma tissue. WB: NTERA-2 cl.D1 [NT2/D1] whole cell lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab228957 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 53 kDa.
IHC-P		1/100 - 1/1000.

## Target

### 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).

### Involvement in disease

Defects in YARS2 are the cause of myopathy with lactic acidosis and sideroblastic anemia type 2 (MLASA2) [MIM:613561]. MLASA2 is a rare oxidative phosphorylation disorder specific to skeletal muscle and bone marrow. Affected individuals manifest sideroblastic anemia, progressive lethargy, muscle weakness, and exercise intolerance associated with persistent lactic acidemia.

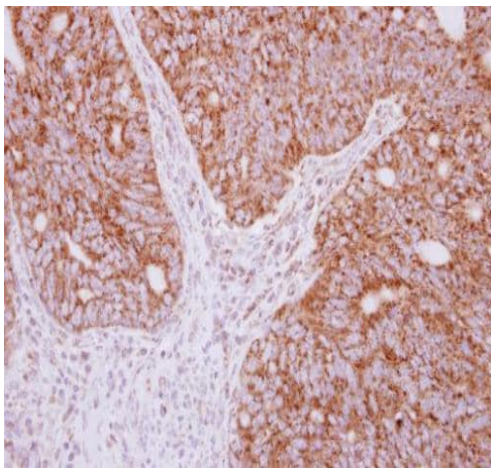
### Sequence similarities

Belongs to the class-I aminoacyl-tRNA synthetase family.

### Cellular localization

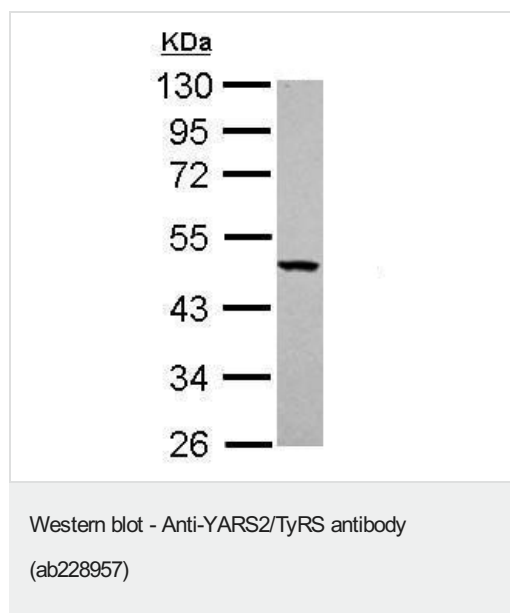
Mitochondrion matrix.

## Images



Paraffin-embedded human colon carcinoma tissue stained for YARS2/TyrRS using ab228957 at 1/250 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YARS2/TyrRS antibody (ab228957)



Anti-YARS2/TyRS antibody (ab228957) at 1/1000 dilution +  
NTERA-2 cl.D1 [NT2/D1] (human malignant pluripotent embryonic  
carcinoma cell line) whole cell lysate at 30 µg

**Predicted band size:** 53 kDa

10% SDS PAGE gel.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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