

For Research Use Only

# YARS Polyclonal antibody

Catalog Number: 31228-1-AP



## Basic Information

<b>Catalog Number:</b> 31228-1-AP	<b>GenBank Accession Number:</b> BC016689	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8565	<b>Recommended Dilutions:</b> WB 1:2000-1:12000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P54577	
<b>Isotype:</b> IgG	<b>Full Name:</b> tyrosyl-tRNA synthetase	
<b>Immunogen Catalog Number:</b> AG35148	<b>Calculated MW:</b> 59 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** A431 cells, U2OS cells, pig pancreas tissue, pig tonsil tissue

**IHC :** human stomach cancer tissue, human ovary cancer tissue

## Background Information

Tyrosyl-tRNA synthetase (YARS) is responsible for tyrosyl-tRNA aminoacylation. The functional enzyme exists as a homodimer, has potent leukocyte and monocyte chemotaxis activity, and stimulates production of myeloperoxidase, tumor necrosis factor- $\alpha$ , and tissue factor. A shift in the monomer:dimer equilibrium could result in dysregulation of the cytokines function. (PMID: 33490854)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

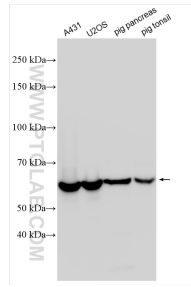
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

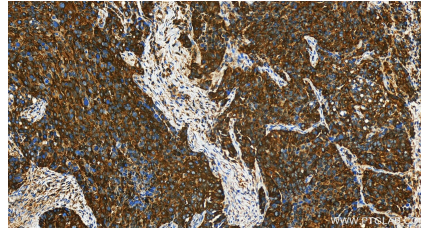
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

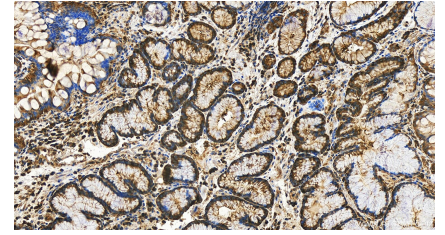
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31228-1-AP (YARS antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 31228-1-AP (YARS antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 31228-1-AP (YARS antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).