

For Research Use Only

# PYCR1-specific Polyclonal antibody

Catalog Number: 20962-1-AP

3 Publications



## Basic Information

Catalog Number:

20962-1-AP

Concentration:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_006907

GeneID (NCBI):

5831

UNIPROT ID:

P32322

Full Name:

pyrroline-5-carboxylate reductase 1

Calculated MW:

33 kDa

Observed MW:

34 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC: 1:20-1:200

## Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

**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: Raji cells, human brain tissue

IP: Raji cells,

IHC: human colon cancer tissue,

## Background Information

PYCR1, also named as P5CR1, belongs to the pyrroline-5-carboxylate reductase family. It is a housekeeping enzyme that catalyzes the last step in proline biosynthesis. PYCR1 can utilize both NAD and NADP, but has higher affinity for NAD. It is involved in the cellular response to oxidative stress. Mutation in PYCR1 will cause ARCL type II (ARCL2B). Some mutation will cause DeBary syndrome (DBS) which is characterized by progeroid features, ophthalmological abnormalities, intrauterine growth retardation, and cutis laxa. The MW of PYCR1 is about 33-35kd. This antibody is specific to PYCR1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Simon Schwörer	32134147	EMBO J	WB
Lirong Chen	33391405	J Cancer	WB
Nneka Southwell	37222423	EMBO Mol Med	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

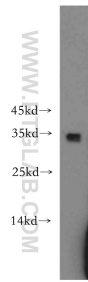
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

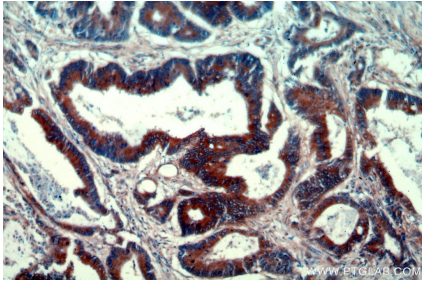
W: [ptgcn.com](http://ptgcn.com)

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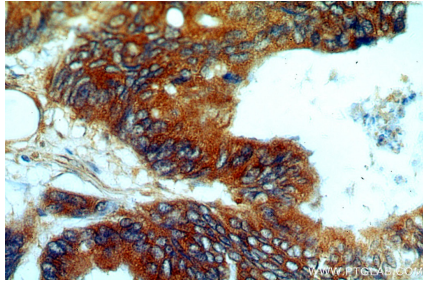
Selected Validation Data



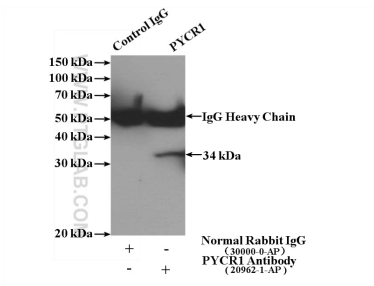
Raji cells were subjected to SDS PAGE followed by western blot with 20962-1-AP (PYCR1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 20962-1-AP (PYCR1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 20962-1-AP (PYCR1 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-PYCR1-specific (IP:20962-1-AP, 4ug; Detection:20962-1-AP 1:500) with Raji cells lysate 1440ug.