## For Research Use Only

## PYCR1 Polyclonal antibody

Catalog Number: 22150-1-AP

**Featured Product** 

1 Publications

BC022244

5831

P32322

GeneID (NCBI):

**UNIPROT ID:** 

Full Name:



**Purification Method:** 

WB 1:500-1:2000

IF/ICC 1:50-1:500

protein lysate

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

**Basic Information** 

Catalog Number: 22150-1-AP

400 μg/ml

Size:

Source: Rabbit Isotype:

Immunogen Catalog Number:

AG17745

33 kDa

pyrroline-5-carboxylate reductase 1 Calculated MW:

GenBank Accession Number:

319 aa, 33 kDa Observed MW:

**Applications** 

**Tested Applications:** WB, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity: human, mouse, rat Cited Species: human

WB: HeLa cells, COLO 320 cells

IP: HeLa cells, IF/ICC: HeLa cells,

Positive Controls:

**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).  $Some \ mutation \ will \ cause \ DeBarsy \ syndrome \ (DBS) \ which \ is \ characterized \ by \ progeroid \ features, \ ophthalmological$  $abnormalities, intrauterine\ growth\ retardation, and\ cut is\ laxa.\ The\ MW\ of\ PYCR1\ is\ about\ 33-35kd.\ This\ antibody$ may have cross reaction to PYCR2 due to the high homology.

**Notable Publications** 

Author Pubmed ID Journal Application Emily J Kay 35760868 Nat Metab WB

Storage

Storage:

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

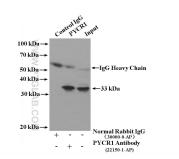
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

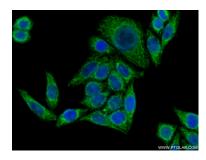
## **Selected Validation Data**



HeLa cells were subjected to SDS PAGE followed by western blot with 22150-1-AP (PYCR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-PYCR1 (IP:22150-1-AP, 4ug; Detection:22150-1-AP 1:1000) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 22150-1-AP (PYCR1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).