

For Research Use Only

# CoraLite®594-conjugated PYCR1 Polyclonal antibody



Catalog Number:CL594-13108

Featured Product

## Basic Information

<b>Catalog Number:</b> CL594-13108	<b>GenBank Accession Number:</b> BC022244	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5831	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> pyrroline-5-carboxylate reductase 1	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 319 aa, 33.8 kDa	
<b>Immunogen Catalog Number:</b> AG3764	<b>Observed MW:</b> 33 kDa, 35 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : HepG2 cells,
<b>Species Specificity:</b> human, mouse, rat	

## 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 33-35 kDa. PYCR1 has 3 isoforms produced by alternative splicing. This antibody may have cross reaction to PYCR2 due to the high homology.

## Storage

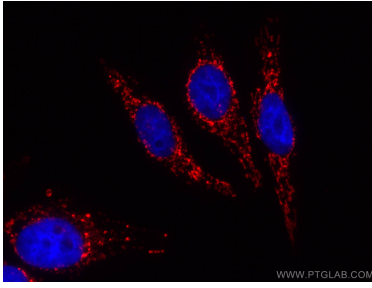
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

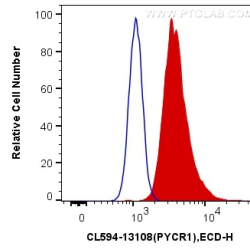
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 PYCR1 antibody (CL594-13108) at dilution of 1:200.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human PYCR1 (CL594-13108) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).