

CoraLite® Plus 488-conjugated PYCR1 Monoclonal antibody

Catalog Number: **CL488-66510**

Basic Information

Catalog Number:

CL488-66510

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG17919

GenBank Accession Number:

BC022244

GeneID (NCBI):

5831

UNIPROT ID:

P32322

Full Name:

pyrroline-5-carboxylate reductase 1

Calculated MW:

319 aa, 33.8 kDa

Observed MW:

33 kDa, 35 kDa

Purification Method:

Protein A purification

CloneNo.:

1H2G1

Recommended Dilutions:

IF/ICC 1:50-1:500

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HeLa cells,

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.

Storage

Storage:

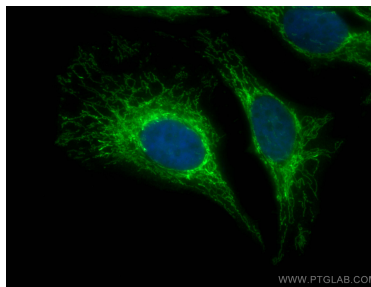
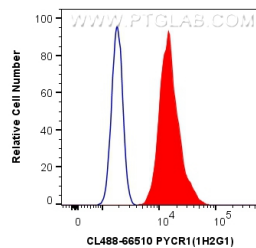
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1×10^6 HeLa cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488 Anti-Human PYCR1 (CL488-66510, Clone: 1H2G1) (red), or 0.4 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 PYCR1 antibody (CL488-66510, Clone: 1H2G1) at dilution of 1:200.