

For Research Use Only

CoraLite® Plus 488-conjugated PYCR1 Monoclonal antibody



Catalog Number: CL488-66510

Basic Information

Catalog Number: CL488-66510	GenBank Accession Number: BC022244	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 5831	CloneNo.: 1H2G1
Source: Mouse	UNIPROT ID: P32322	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Full Name: pyrroline-5-carboxylate reductase 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG17919	Calculated MW: 319 aa, 33.8 kDa	
	Observed MW: 33 kDa, 35 kDa	

Applications

Tested Applications: FC (Intra), IF/ICC	Positive Controls: IF : HeLa cells,
Species Specificity: 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.

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

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

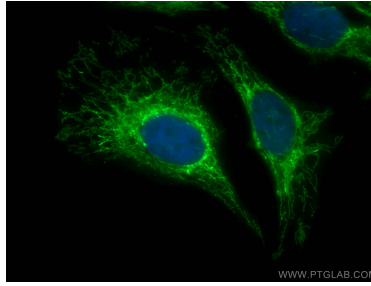
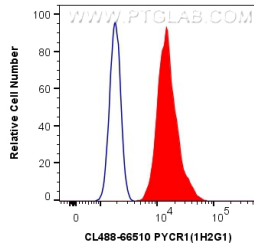
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PYCR1 (CL488-66510, Clone:1H2G1) (red), or 0.4 ug 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.