

**PYCR1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9893b**

**Specification**

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**PYCR1 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [P32322](#)

**PYCR1 Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 5831

**Other Names**

Pyrroline-5-carboxylate reductase 1, mitochondrial, P5C reductase 1, P5CR 1, PYCR1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PYCR1 Antibody (C-term) Blocking Peptide - Protein Information**

**Name** PYCR1

**Function**

Housekeeping enzyme that catalyzes the last step in proline biosynthesis. Can utilize both NAD and NADP, but has higher affinity for NAD. Involved in the cellular response to oxidative stress.

**Cellular Location**

Mitochondrion.

**PYCR1 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PYCR1 Antibody (C-term) Blocking Peptide - Images**

**PYCR1 Antibody (C-term) Blocking Peptide - Background**

This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of

pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion.

#### **PYCR1 Antibody (C-term) Blocking Peptide - References**

Reversade, B., et al. Nat. Genet. 41(9):1016-1021(2009)Guernsey, D.L., et al. Am. J. Hum. Genet. 85(1):120-129(2009)Meng, Z., et al. J. Mol. Biol. 359(5):1364-1377(2006)