

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

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)