

Recombinant Human PYCR1 cell lysate

Cat. No. PYCR1-1448HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	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. Alternate splicing results in two transcript variants encoding different isoforms.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	PYCR1 pyrroline-5-carboxylate reductase 1 [Homo sapiens]
Official Symbol	PYCR1
Synonyms	PYCR1; pyrroline-5-carboxylate reductase 1; pyrroline-5-carboxylate reductase 1, mitochondrial; P5C; P5CR 1; P5C reductase 1; proliferation-inducing protein 45; mitochondrial pyrroline-5-carboxylate reductase 1; P5CR; PRO3; PYCR; PIG45;

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	PP222; ARCL2B; ARCL3B;
Gene ID	5831
mRNA Refseq	NM_006907
Protein Refseq	NP_008838
MIM	179035
UniProt ID	P32322
Chromosome Location	17
Pathway	Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Proline biosynthesis, glutamate =>
Function	identical protein binding; nucleotide binding; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; pyrroline-5-carboxylate reductase activity; pyrroline-5-carboxylate reductase activity;