

# Recombinant Human PYCR1 cell lysate

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

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>    | 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. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                               |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PYCR1 pyrroline-5-carboxylate reductase 1 [ Homo sapiens ]                                                                                                                                                                                   |
| <b>Official Symbol</b> | PYCR1                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | 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; |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | PP222; ARCL2B; ARCL3B;                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene ID</b>             | 5831                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_006907                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_008838                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 179035                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>          | P32322                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 17                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | 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 => |
| <b>Function</b>            | 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;                                                                                                                                                           |