

## Rabbit PYCR1 Polyclonal Antibody | anti-PYCR1 antibody

PYCR1 Polyclonal Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA281024</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

PYCR1; Polyclonal Antibody; PYCR1 Polyclonal Antibody; ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR; anti-PYCR1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                            |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                        |
| Isotype                                         | IgG                                                                                                                                                                                                                                                                                               |
| Purity/Purification                             | Affinity Purification                                                                                                                                                                                                                                                                             |
| Sequence                                        | MSVGFIGAGQ LAFALAKGFT AAGVLAHKI MASSPDMDLA TVSALRKMGV KLTPHNKETV QHSDVFLAV<br>KPHIIPFILD EIGADIEDRH IVVSCAAGVT ISSIEKKLSA FRPAPRVIRC MTNTPVVVRE GATVYATGTH<br>AQVEDGRLME QLLSSVGFC T EVEEDLIDAV TGLSGSGPAY AFTALDALAD GGVKMGLPRR LAVRLGAQAL<br>LGA AKMLLHS EQHPGQLKDN VSSPGGATIH ALHVLESGGF RSLLI |
| Sequence Length                                 | 319                                                                                                                                                                                                                                                                                               |
| Applicable Applications for anti-PYCR1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                     |
| Immunogen                                       | Recombinant protein of human PYCR1                                                                                                                                                                                                                                                                |
| Immunogen Species                               | Human                                                                                                                                                                                                                                                                                             |
| Storage Buffer                                  | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                                                                                                                                                                                                                 |
| Cellular Location                               | Mitochondrion                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                         | Store at -20 degree C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                |

### IMAGES



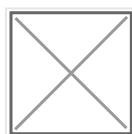
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human stomach using PYCR1 antibody at dilution of 1:200 (40x lens).



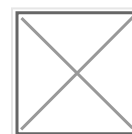
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human prostate using PYCR1 antibody at dilution of 1:200 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat kidney using PYCR1 antibody at dilution of 1:200 (40x lens).



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat liver using PYCR1 antibody at dilution of 1:200 (40x lens).



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PYCR1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 30s.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PYCR1 antibody | 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. Alternative splicing results in multiple transcript variants. |
| Product Categories/Family for anti-PYCR1 antibody   | <a href="#">Polyclonal Antibodies</a>                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">533112488</a>                                                                                                                           |
| NCBI GeneID                      | <a href="#">5831</a>                                                                                                                                |
| NCBI Accession #                 | <a href="#">NP_001269209.1</a>                                                                                                                      |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001282280.1</a>                                                                                                                      |
| UniProt Accession #              | <a href="#">P32322</a> ; <a href="#">Q6FHI4</a> ; <a href="#">Q96DI6</a> ; <a href="#">Q9HBQ4</a> ; <a href="#">A6NFM2</a> ; <a href="#">B4DMU0</a> |
| Molecular Weight                 | Calculated: 33kDa; 35kDa<br>Observed: 33kDa                                                                                                         |
| NCBI Official Full Name          | pyrroline-5-carboxylate reductase 1, mitochondrial isoform 1                                                                                        |
| NCBI Official Synonym Full Names | pyrroline-5-carboxylate reductase 1                                                                                                                 |
| NCBI Official Symbol             | PYCR1                                                                                                                                               |
| NCBI Official Synonym Symbols    | P5C; P5CR; PRO3; PYCR; PIG45; PP222; ARCL2B; ARCL3B                                                                                                 |
| NCBI Protein Information         | pyrroline-5-carboxylate reductase 1, mitochondrial                                                                                                  |
| UniProt Protein Name             | Pyrroline-5-carboxylate reductase 1, mitochondrial                                                                                                  |
| UniProt Gene Name                | <b>PYCR1</b>                                                                                                                                        |
| UniProt Synonym Gene Names       | P5C reductase 1; P5CR 1                                                                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pycr1-antibody-immunohistochemistry-western-blot-elisa/281024>