

**PYCR2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11852c**

**Specification**

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**PYCR2 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q96C36</a>
Other Accession	<a href="#">Q6AY23</a> , <a href="#">Q922Q4</a> , <a href="#">Q4R6W7</a> , <a href="#">Q17QJ7</a> , <a href="#">NP_037460.2</a>
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33637
Antigen Region	89-116

**PYCR2 Antibody (Center) - Additional Information**

**Gene ID** 29920

**Other Names**

Pyrroline-5-carboxylate reductase 2, P5C reductase 2, P5CR 2, PYCR2

**Target/Specificity**

This PYCR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-116 amino acids from the Central region of human PYCR2.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PYCR2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PYCR2 Antibody (Center) - Protein Information**

**Name** PYCR2 ([HGNC:30262](#))

**Function** Oxidoreductase that catalyzes the last step in proline biosynthesis, which corresponds to the reduction of pyrroline-5- carboxylate to L-proline using NAD(P)H (PubMed:[23024808](#), PubMed:[2722838](#), PubMed:[6894153](#)). At physiologic concentrations, has higher specific activity in the presence of NADH (PubMed:[23024808](#), PubMed:[2722838](#), PubMed:[6894153](#)). Involved in cellular response to oxidative stress (PubMed:[25865492](#)). In some cell types, such as erythrocytes, its primary function may be the generation of NADP(+) (PubMed:[2722838](#), PubMed:[6894153](#)).

**Cellular Location**

Cytoplasm. Mitochondrion

**Tissue Location**

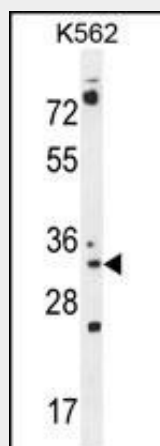
Detected in erythrocytes (at protein level) (PubMed:[2722838](#), PubMed:[6894153](#)). Expressed in fetal brain (PubMed:[25865492](#)).

**PYCR2 Antibody (Center) - Protocols**

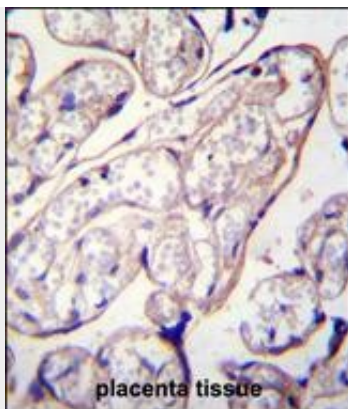
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PYCR2 Antibody (Center) - Images**



PYCR2 Antibody (Center) (Cat. #AP11852c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the PYCR2 antibody detected the PYCR2 protein (arrow).



PYCR2 Antibody (Center) (Cat. #AP11852c) immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PYCR2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **PYCR2 Antibody (Center) - Background**

PYCR2 belongs to the pyrroline-5-carboxylate reductase family. Pyrroline-5-carboxylate reductase catalyzes the the NAD(P)H-dependent conversion of proline to pyrroline-5-carboxylate.

#### **PYCR2 Antibody (Center) - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Lim, J., et al. Cell 125(4):801-814(2006)  
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)