

**P450R Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6518C**

**Specification**

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**P450R Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P16435</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>76690</b>
Antigen Region	<b>462-488</b>

**P450R Antibody (Center) - Additional Information**

**Gene ID** 5447

**Other Names**

NADPH--cytochrome P450 reductase, CPR, P450R, POR, CYPOR

**Target/Specificity**

This P450R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 462-488 amino acids from the Central region of human P450R.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

P450R Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**P450R Antibody (Center) - Protein Information**

**Name** POR {ECO:0000255|HAMAP-Rule:MF\_03212}

**Synonyms** CYPOR

**Function** This enzyme is required for electron transfer from NADP to cytochrome P450 in microsomes. It can also provide electron transfer to heme oxygenase and cytochrome B5.

**Cellular Location**

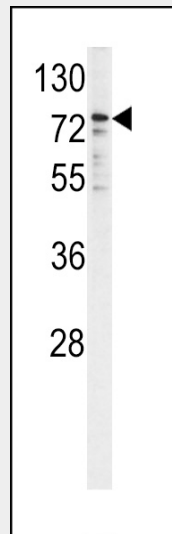
Endoplasmic reticulum membrane {ECO:0000255|HAMAP-Rule:MF\_03212}; Single-pass membrane protein {ECO:0000255|HAMAP-Rule:MF\_03212}; Cytoplasmic side {ECO:0000255|HAMAP-Rule:MF\_03212}

**P450R Antibody (Center) - Protocols**

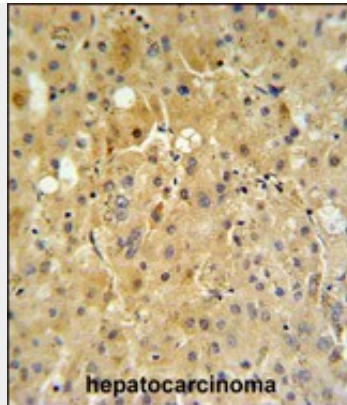
Provided below are standard protocols that you may find useful for product applications.

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

**P450R Antibody (Center) - Images**



Western blot analysis of P450R antibody (Center) (Cat.# AP6518c) in K562 cell line lysates (35ug/lane). P450R (arrow) was detected using the purified Pab.



P450R Antibody (Center) (Cat.# AP6518c) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the P450R Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **P450R Antibody (Center) - Background**

P450R is an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in its gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome.

#### **P450R Antibody (Center) - References**

Fukami,M., J. Clin. Endocrinol. Metab. 94 (5), 1723-1731 (2009)  
Mast,N., Arch. Biochem. Biophys. 483 (1), 81-89 (2009)  
Brenner,S., FEBS J. 275 (18), 4540-4557 (2008)