

**CYP21A2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17032c****Specification**

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**CYP21A2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P08686](#)**CYP21A2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1589**Other Names**

Steroid 21-hydroxylase, 21-OHase, Cytochrome P-450c21, Cytochrome P450 21, Cytochrome P450 XXI, Cytochrome P450-C21, Cytochrome P450-C21B, CYP21A2, CYP21, CYP21B

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CYP21A2 Antibody (Center) Blocking Peptide - Protein Information****Name** CYP21A2**Synonyms** CYP21, CYP21B**Function**

A cytochrome P450 monooxygenase that plays a major role in adrenal steroidogenesis. Catalyzes the hydroxylation at C-21 of progesterone and 17alpha-hydroxyprogesterone to respectively form 11- deoxycorticosterone and 11-deoxycortisol, intermediate metabolites in the biosynthetic pathway of mineralocorticoids and glucocorticoids (PubMed:<a href="http://www.uniprot.org/citations/25855791" target="\_blank">25855791</a>, PubMed:<a href="http://www.uniprot.org/citations/10602386" target="\_blank">10602386</a>, PubMed:<a href="http://www.uniprot.org/citations/16984992" target="\_blank">16984992</a>, PubMed:<a href="http://www.uniprot.org/citations/22014889" target="\_blank">22014889</a>, PubMed:<a href="http://www.uniprot.org/citations/27721825" target="\_blank">27721825</a>).

Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:<a href="http://www.uniprot.org/citations/25855791" target="\_blank">25855791</a>).

**Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

### **CYP21A2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **CYP21A2 Antibody (Center) Blocking Peptide - Images**

### **CYP21A2 Antibody (Center) Blocking Peptide - Background**

Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.