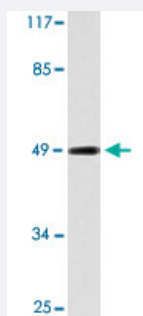


# CYP17A1 polyclonal antibody

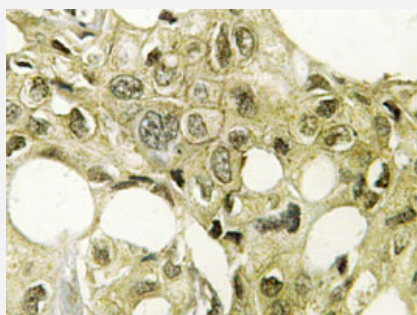
Catalog # PAB24901      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of Jurkat cell lysate with CYP17A1 polyclonal antibody (Cat # PAB24901).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using CYP17A1 polyclonal antibody (Cat # PAB24901).

## Specification

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Product Description</b>  | Rabbit polyclonal antibody raised against synthetic peptide of CYP17A1.   |
| <b>Immunogen</b>            | A synthetic peptide corresponding to CYP17A1.                             |
| <b>Host</b>                 | Rabbit                                                                    |
| <b>Theoretical MW (kDa)</b> | 50                                                                        |
| <b>Reactivity</b>           | Human                                                                     |
| <b>Specificity</b>          | CYP17A1 polyclonal antibody detects endogenous levels of CYP17A1 protein. |
| <b>Form</b>                 | Liquid                                                                    |

|                            |                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purification</b>        | Antigen affinity purification                                                                                                                                             |
| <b>Concentration</b>       | 1 mg/mL                                                                                                                                                                   |
| <b>Recommend Usage</b>     | Western Blot (1:500-1:1000)<br>Immunohistochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS, pH 7.2 (0.05% sodium azide)                                                                                                                                       |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                    |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                    |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Jurkat cell lysate with CYP17A1 polyclonal antibody (Cat # PAB24901).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using CYP17A1 polyclonal antibody (Cat # PAB24901).

- Immunofluorescence

## Gene Info — CYP17A1

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| <b>Entrez GeneID</b>    | <a href="#">1586</a>                                   |
| <b>Gene Name</b>        | CYP17A1                                                |
| <b>Gene Alias</b>       | CPT7, CYP17, P450C17, S17AH                            |
| <b>Gene Description</b> | cytochrome P450, family 17, subfamily A, polypeptide 1 |
| <b>Omim ID</b>          | <a href="#">202110 609300</a>                          |
| <b>Gene Ontology</b>    | <a href="#">Hyperlink</a>                              |

**Gene Summary**

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum. It has both 17 $\alpha$ -hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17  $\alpha$ -hydroxylase deficiency, 17- $\alpha$ -hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq]

**Other Designations**

OTTHUMP00000020382|cytochrome P450, family 17|cytochrome P450, subfamily XVII (steroid 17- $\alpha$ -hydroxylase), adrenal hyperplasia|cytochrome p450 XVIIA1|steroid 17- $\alpha$ -hydroxylase/17,20 lyase|steroid 17- $\alpha$ -monooxygenase

**Pathway**

- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)

**Disease**

- [Abortion](#)
- [Acne Vulgaris](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cadaver](#)

- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cholestasis](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Ductus Arteriosus](#)
- [Dyskinesia](#)
- [Edema](#)
- [Endometrial Hyperplasia](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fatty Liver](#)
- [Fetal Growth Retardation](#)
- [Fibroadenoma](#)
- [Fibrocystic Breast Disease](#)
- [Gallstones](#)
- [Genetic Predisposition to Disease](#)

- [Hepatitis C](#)
- [Hot Flashes](#)
- [Hyperandrogenism](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Infant](#)
- [Infertility](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Leiomyoma](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Mouth Neoplasms](#)
- [Myocardial Infarction](#)
- [Narcolepsy](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Oligospermia](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)

- [Ovarian Diseases](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Overweight](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Personality Tests](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Social Perception](#)
- [Spondylarthropathies](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Testicular Neoplasms](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)

- [Urinary Calculi](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)