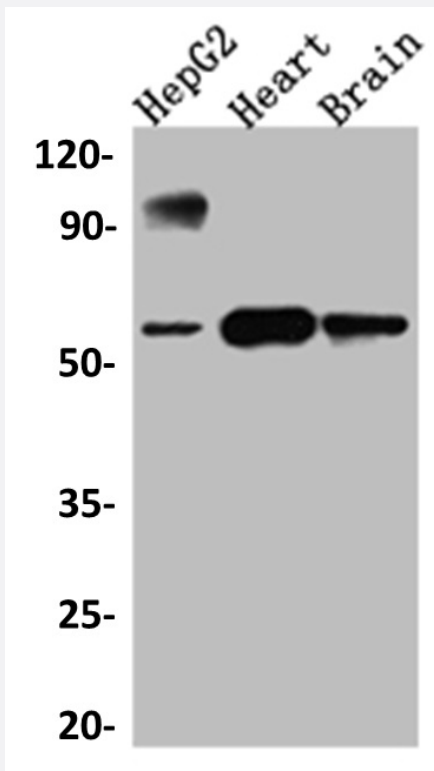


RecomAb™

CYP17A1 recombinant monoclonal antibody, clone 5A9

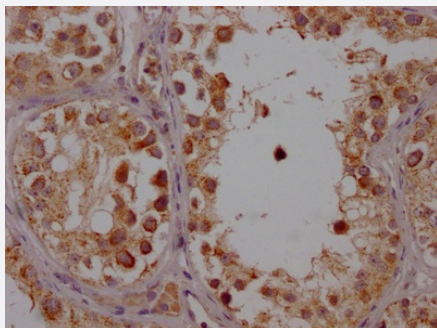
Catalog # RAB07446 Size 100 uL

Applications



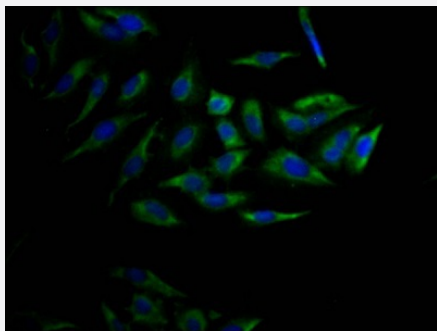
Western Blot

Western blot analysis of HepG2 whole cell lysate, Rat Heart whole cell lysate, Rat Brain whole cell lysate with CYP17A1 recombinant monoclonal antibody, clone 5A9 (Cat # RAB07446).



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

Immunohistochemical analysis of paraffin-embedded human testis tissue using CYP17A1 recombinant monoclonal antibody, clone 5A9 (Cat # RAB07446) on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence

Immunofluorescent staining of Hela Cells with CYP17A1 recombinant monoclonal antibody, clone 5A9 (Cat # RAB07446). The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CYP17A1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CYP17A1.
Theoretical MW (kDa)	58
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — CYP17A1

Entrez GeneID [1586](#)

Protein Accession# [P05093](#)

Gene Name CYP17A1

Gene Alias CPT7, CYP17, P450C17, S17AH

Gene Description cytochrome P450, family 17, subfamily A, polypeptide 1

Omim ID [202110 609300](#)

Gene Ontology [Hyperlink](#)

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 17alpha-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](#)
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- [Pancreatic Neoplasms](#)
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- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Prenatal Exposure Delayed Effects](#)
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- [Testicular Neoplasms](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)