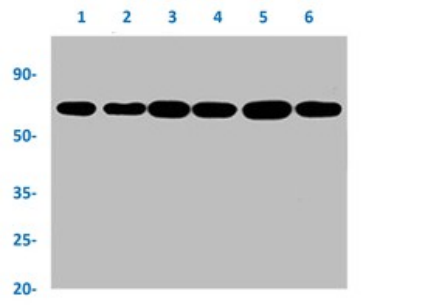
RecomAb™

CYP19A1 recombinant monoclonal antibody, clone 1H1

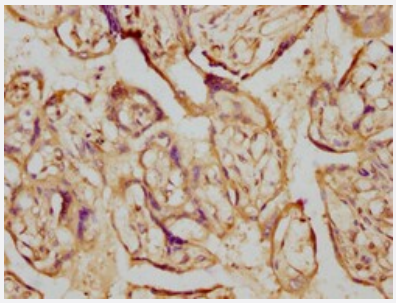
Catalog # RAB04357 Size 100 uL

Applications



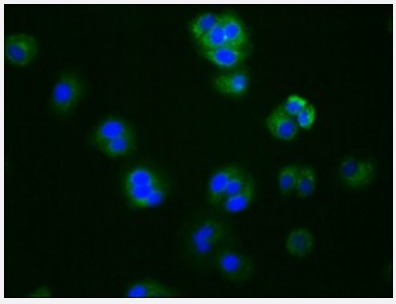
Western Blot

Western blot analysis of Lane 1: HepG2 whole cell lysate, Lane 2: Jurkat whole cell lysate, Lane 3: 293 whole cell lysate, Lane 4: SH-SY5Y whole cell lysate, Lane 5: U87 whole cell lysate and Lane 6: K562 whole cell lysate with CYP19A1 recombinant monoclonal antibody, clone 1H1 (Cat # RAB04357).



Immunohistochemistry

Immunohistochemical staining of human placenta tissue with CYP19A1 recombinant monoclonal antibody, clone 1H1 (Cat # RAB04357) (diluated at 1:230).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with CYP19A1 recombinant monoclonal antibody, clone 1H1 (Cat # RAB04357) (diluated at 1:76). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CYP19A1.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CYP19A1.
Theoretical MW (kDa)	Calculated MW: 58, 2
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
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 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
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 shoul d be handled by trained staff only.

Applications

- Western Blot

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- Immunofluorescence

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — CYP19A1

Entrez GeneID	1588
Protein Accession#	P11511
Gene Name	CYP19A1
Gene Alias	ARO, ARO1, CPV1, CYAR, CYP19, MGC104309, P-450AROM
Gene Description	cytochrome P450, family 19, subfamily A, polypeptide 1
Omim ID	107910 139300
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 re ticulum and catalyzes the last steps of estrogen biosynthesis, three successive hydroxylations of t he A ring of androgens. Mutations in this gene can result in either increased or decreased aromat ase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hor mone and in growth or differentiation. The gene expresses two transcript variants. [provided by R efSeq
Other Designations	OTTHUMP00000162543|aromatase|cytochrome P450, family 19|cytochrome P450, subfamily XI X (aromatization of androgens)|estrogen synthetase|flavoprotein-linked monooxygenase|microso mal monooxygenase

Pathway

- Androgen and estrogen metabolism
- Metabolic pathways

Disease

- Abortion
- Adenocarcinoma
- Alopecia
- Alzheimer disease
- Arthritis

- Asperger Syndrome
- Atherosclerosis
- Autistic Disorder
- Breast cancer
- Breast Neoplasms
- Cadaver
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Cognition Disorders
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Cryptorchidism
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Fetal Diseases
- Fibroadenoma

- Fibrocystic Breast Disease
- Fractures
- Gender Identity
- Genetic Diseases
- Genetic Predisposition to Disease
- Gynecomastia
- Hip Fractures
- Hot Flashes
- Hyperandrogenism
- Hyperplasia
- Hypertension
- Hypertrophy
- Infection
- Infertility
- Inflammation
- Insulin Resistance
- Kidney Failure
- Leiomyoma
- Leiomyomatosis
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Metabolic Syndrome X
- Migraine Disorders

- Musculoskeletal Diseases
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Neuropsychological Tests
- Obesity
- Oligospermia
- Osteoarthritis
- Osteopetrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Hyperstimulation Syndrome
- Ovarian Neoplasms
- Parkinson disease
- Peripheral Vascular Diseases
- Polycystic Ovary Syndrome
- Precancerous Conditions
- Pregnancy Complications
- Premature Birth
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Puberty

- Pulmonary Disease
- Recurrence
- Seminoma
- Skin Diseases
- Social Perception
- Spinal Fractures
- Stomach Neoplasms
- Testicular Neoplasms
- Thrombophilia
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Uterine Neoplasms
- Weight Loss
- Werner syndrome