

CYP19A1 polyclonal antibody

Catalog # PAB2971 Size 400 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CYP19A1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human CYP19A1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°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

- Western Blot
- Immunohistochemistry

Gene Info — CYP19A1

Entrez GeneID [1588](#)

Protein Accession#	NP_000094;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 reticulum and catalyzes the last steps of estrogen biosynthesis, three successive hydroxylations of the A ring of androgens. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. The gene expresses two transcript variants. [provided by RefSeq]
Other Designations	OTTHUMP00000162543 aromatase cytochrome P450, family 19 cytochrome P450, subfamily XI X (aromatization of androgens) estrogen synthetase flavoprotein-linked monooxygenase microsomal monooxygenase

Publication Reference

- [Investigation of hormone receptor expression and its prognostic value in endometrial stromal sarcoma.](#)

Park JY, Baek MH, Park Y, Kim YT, Nam JH.

Virchows Archiv : an International Journal of Pathology 2018 Jul; 473(1):61.

Application: IHC-P, Human, Human endometrial stromal sarcoma

- [Androgen receptor as a prognostic biomarker and therapeutic target in uterine leiomyosarcoma.](#)

Baek MH, Park JY, Park Y, Kim KR, Kim DY, Suh DS, Kim JH, Kim YM, Kim YT, Nam JH.

Journal of Gynecologic Oncology 2018 May; 29(3):e30.

Application: IHC, Human, Tissue microarrays (TMAs)

- [Investigation of New Therapeutic Targets in Undifferentiated Endometrial Sarcoma.](#)

Baek MH, Park JY, Rhim CC, Kim JH, Park Y, Kim KR, Nam JH.

Gynecologic and Obstetric Investigation 2017 Jan; 82(4):329.

Application: IHC-P, Human, Human undifferentiated endometrial sarcoma

- [PSA and androgen-related gene \(AR, CYP17, and CYP19\) polymorphisms and the risk of adenocarcinoma at prostate biopsy.](#)

dos Santos RM, de Jesus CM, Trindade Filho JC, Trindade JC, de Camargo JL, Rainho CA, Rogatto SR.

DNA and Cell Biology 2008 Sep; 27(9):497.

- [The synergistic effect of sex hormone-binding globulin and aromatase genes on polycystic ovary syndrome phenotype.](#)

Xita N, Georgiou I, Lazaros L, Psfaki V, Kolios G, Tsatsoulis A.

European Journal of Endocrinology 2008 Jun; 158(6):861.

- [Comparison of cytochrome P450 \(CYP\) genes from the mouse and human genomes, including nomenclature recommendations for genes, pseudogenes and alternative-splice variants.](#)

Nelson DR, Zeldin DC, Hoffman SM, Maltais LJ, Wain HM, Nebert DW.

Pharmacogenetics 2004 Jan; 14(1):1.

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](#)