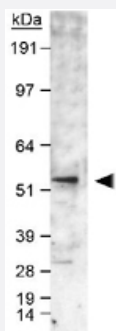


CYP19A1 polyclonal antibody

Catalog # PAB12453 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of CYP19A1 in human fetal temporal lobe lysate using CYP19A1 polyclonal antibody (Cat # PAB12453). ECL exposure, 1-2 minutes.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CYP19A1.
Immunogen	A synthetic peptide corresponding to amino acids 400-502 of human CYP19A1.
Host	Rabbit
Reactivity	Bovine, Horse, Human, Primates, Rabbit
Specificity	This antibody is specific to aromatase.
Form	Liquid
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-citrate/phosphate buffer, pH 7.0-8.0 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of CYP19A1 in human fetal temporal lobe lysate using CYP19A1 polyclonal antibody (Cat # PAB12453). ECL exposure, 1-2 minutes.

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 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

- [Dynamic changes in gene expression that occur during the period of spontaneous functional regression in the rhesus macaque corpus luteum.](#)

Bogan RL, Murphy MJ, Hennebold JD.

Endocrinology 2009 Mar; 150(3):1521.

Application: WB-Ti, Monkey, Frozen corpus luteum

- [Systematic determination of differential gene expression in the primate corpus luteum during the luteal phase of the menstrual cycle.](#)

Bogan RL, Murphy MJ, Stouffer RL, Hennebold JD.

Molecular Endocrinology (Baltimore, Md.) 2008 May; 22(5):1260.

Application: WB-Ti, Monkeyt, Monkey primate corpus luteum tissues

- [Aromatase-immunoreactivity is localised specifically in neurones in the developing mouse hypothalamus and cortex.](#)

Beyer C, Green SJ, Barker PJ, Huskisson NS, Hutchison JB.

Brain Research 1994 Feb; 638(1-2):203.

Application: ELISA, IF, IHC, WB, Mouse, Cortex, Hypothalamus, Ovary

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](#)
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- [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](#)
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- [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](#)