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Datasheet

CYP19A1 polyclonal antibody

Catalog Number: PAB2971

Regulatory Status: For research use only (RUO)

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

Applications: IHC, WB
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

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.

Entrez GeneID: 1588

Gene Symbol: CYP19A1

Gene Alias: ARO, ARO1, CPV1, CYAR, CYP19, MGC104309, P-450AROM

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]

References:

1. 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 Cell Biol. 2008 Sep;27(9):497-503.
2. The synergistic effect of sex hormone-binding globulin and aromatase genes on polycystic ovary syndrome phenotype. Xita N, Georgiou I, Lazaros L, Psofaki V, Kolios G, Tsatsoulis A. Eur J Endocrinol. 2008 Jun;158(6):861-5.
3. 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):1-18.