

## **CYP19A1 Polyclonal Antibody**

Catalog No: YT1190

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: CYP19A1

**Fields:** >>Steroid hormone biosynthesis;>>Metabolic pathways;>>Ovarian

steroidogenesis

Gene Name: CYP19A1

Protein Name: Cytochrome P450 19A1

P11511

P28649

Human Gene Id: 1588

**Human Swiss Prot** 

No:

Mouse Gene Id: 13075

**Mouse Swiss Prot** 

No:

Rat Swiss Prot No: P22443

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

Cytochrome P450 19A1. AA range:221-270

**Specificity:** CYP19A1 Polyclonal Antibody detects endogenous levels of CYP19A1 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

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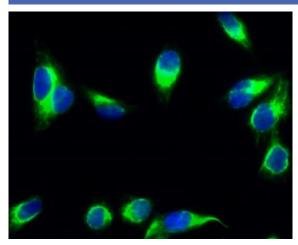
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	chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	53kD
Cell Pathway :	Steroid hormone biosynthesis; Androgen and estrogen metabolism;
oen i anway .	eter eta normene zioeynanosie, anaregen ana eetregen motazonem,
Background:	cytochrome P450 family 19 subfamily A member 1(CYP19A1) Homo sapiens 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. 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014],
Function:	catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized flavoprotein + H(2)O.,cofactor:Heme group.,disease:Defects in CYP19A1 are a cause of familial gynecomastia [MIM:139300]. This is characterized by an estrogen excess due to an increased aromatase activity.,disease:Defects in CYP19A1 are the cause of aromatase deficiency (AROD) [MIM:107910]. AROD is a rare disease in which fetal androgens are not converted into estrogens due to placental aromatase deficiency. Thus, pregnant women exhibit a hirsutism, which spontaneously resolves after post-partum. At birth, female babies present with pseudohermaphroditism due to virilization of extern genital organs. In adult females, manifestations include delay of puberty, breast hypoplasia and primary amenorrhoea with multicystic ovaries.,function:Catalyzes the formation of aromatic C18 estrogens from C19 androgens.,online information:
Subcellular Location :	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Microsome membrane ; Multi-pass membrane protein .
Expression :	Widely expressed, including in adult and fetal brain, placenta, skin fibroblasts, adipose tissue and gonads.
Tag:	hot
Sort:	1
JUIL.	
No4:	1



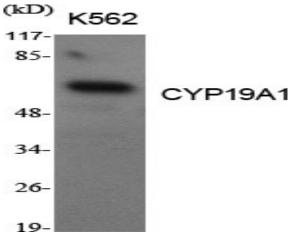
Host: Rabbit

Modifications: Unmodified

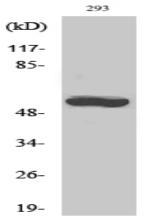
## **Products Images**



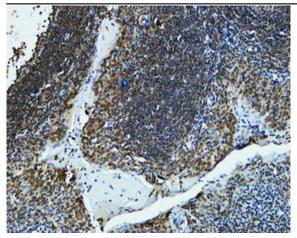
Immunofluorescence analysis of Hela cell. 1,CYP19A1 Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



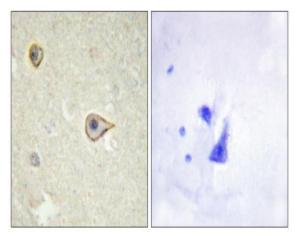
Western Blot analysis of various cells using CYP19A1 Polyclonal Antibody diluted at 1:1000



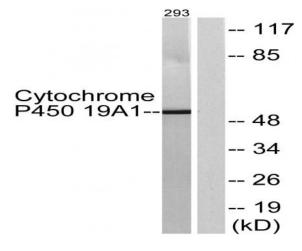
Western Blot analysis of 293 cells using CYP19A1 Polyclonal Antibody diluted at 1:1000



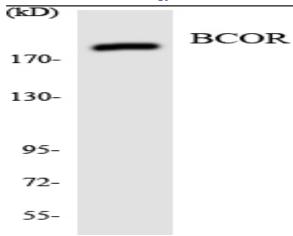
Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Cytochrome P450 19A1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using Cytochrome P450 19A1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using BCOR antibody.