

CYP19A1 Rabbit pAb

CatalogNo: YT1190

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 53kD (Observed)

Isotype

- IgG

| Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

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

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:20000

Not yet tested in other applications.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

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.

| Target Information

Gene name	CYP19A1		
Protein Name	Cytochrome P450 19A1		
	Organism	Gene ID	UniProt ID
	Human	1588 ;	P11511 ;
	Mouse	13075 ;	P28649 ;
	Rat		P22443 ;
Cellular Localization	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Microsome membrane ; Multi-pass membrane protein .		
Tissue specificity	Widely expressed , including in adult and fetal brain , placenta , skin fibroblasts , adipose tissue and gonads.		
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:Aromatase entry ,similarity:Belongs to the cytochrome P450 family. ,tissue specificity:Brain , placenta and gonads. ,		

| Validation Data

| Contact information

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