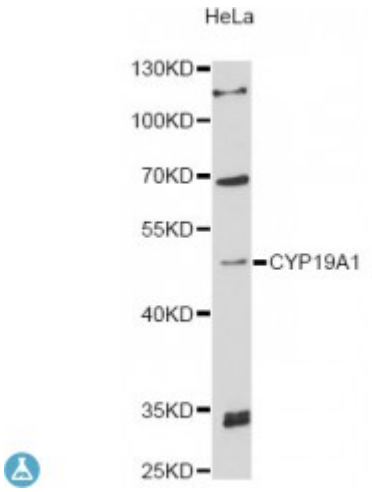
Anti-CYP19A1 Antibody



Description	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 promoter use and alternative splicing results in multiple transcript variants that have different tissue specificities.

Model	STJ114557
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IF, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-180 of human CYP19A1 (NP_000094.2).
Gene ID	1588
Gene Symbol	CYP19A1
Dilution range	WB 1:1000 - 1:2000 IF 1:50 - 1:200
Tissue Specificity	Widely expressed, including in adult and fetal brain, placenta, skin fibroblasts, adipose tissue and gonads
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	Aromatase
Molecular Weight	57.883 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:2594OMIM:107910Reactome:R-HSA-193144
Alternative Names	Aromatase
Function	Catalyzes the formation of aromatic C18 estrogens from C19 androgens
Cellular Localization	Membrane
Post-translational Modifications	Phosphorylated in vitro by PKA and PKG/PRKG1, These phosphorylations inhibit the catalytic activity as measured by estrone synthesis from androstenedione (36% decrease for PKA and 30% for PKG/PRKG1),