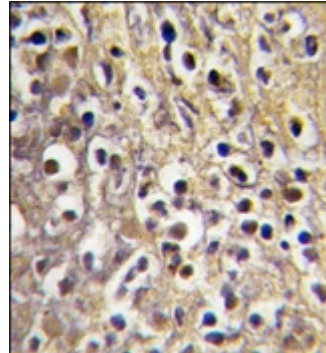


## Polyclonal Antibody to Aromatase (C-term) - Purified

<b>Alternate names:</b>	ARO1, CYAR, CYP19, CYP19A1, CYPXIX, Cytochrome P450 19A1, Estrogen synthetase, P450AROM
<b>Catalog No.:</b>	AP14221PU-N
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	2 mg/ml
<b>Background:</b>	CYP19A1 is 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 the gene encoding CYP19A1 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.
<b>Uniprot ID:</b>	<a href="#">P11511</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">1588</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	KLH conjugated synthetic peptide between 453~485 amino acids from the C-terminal region of Human CYP19A1. <b>Gene name:</b> CYP19A1
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS <b>Buffer System:</b> PBS with 0.09% (W/V) Sodium Azide as preservative
<b>Applications:</b>	Western blot: 1/1000. Immunohistochemistry on Paraffin Sections: 1/10-1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Aromatase (CYP19A1) at C-term.
<b>Species Reactivity:</b>	<b>Tested:</b> Human.
<b>Add. Information:</b>	Calculated Molecular Weight: 57883 Da
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

- General Readings:**
1. Xita,N.,Eur. J. Endocrinol. 158 (6), 861-865 (2008)
  2. Dos Santos,R.M.,(er) DNA Cell Biol. (2008) In press.
  3. Nelson,D.R.,Pharmacogenetics 14 (1), 1-18 (2004).

**Pictures:** AP14221PU-N CYP19A1 antibody staining of Formalin-Fixed, Paraffin-Embedded Human placenta tissue using peroxidase-conjugate and DAB chromogen.



Western blot analysis using AP14221PU-N CYP19A1 antibody in Jurkat cell line lysates (35 µg/lane). CYP19A1 (arrow) was detected using the purified antibody at 1/60 dilution.

