

Product datasheet for **AP20542PU-M**

Aromatase (CYP19A1) Rabbit Polyclonal Antibody

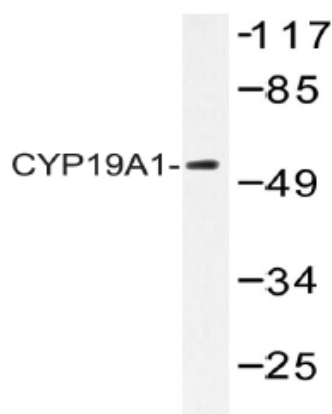
Product data:

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| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000 Immunofluorescence: 1/50-1/200 Immunohistochemistry on Paraffin Sections: 1/50-1/200 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | This antibody detects endogenous levels of CYP19A1 protein. (region surrounding Lys243) |
| Formulation: | Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity Chromatography using epitope-specific immunogen. |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Predicted Protein Size: | ~ 58 kDa |
| Gene Name: | cytochrome P450 family 19 subfamily A member 1 |
| Database Link: | <u>Entrez Gene 13075 Mouse</u> <u>Entrez Gene 25147 Rat</u> <u>Entrez Gene 1588 Human P11511</u> |



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| Background: | P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endogenous and xenobiotic compounds. P450 enzymes can be classified, based on their sequence similarities, into distinct subfamilies, which include CYP1A and CYP2A. Other P450 family members include CYP19, also designated aromatase (P450arom), which catalyzes the conversion of C19 steroids to estrogens in various tissues, including placenta, gonads, adipose tissue, skin and brain. CYP19 expression is controlled by hormonally regulated promoters in different tissues and increased aromatase activity is associated with familial gynecomastia. Also, a polymorphic allele of CYP19 (repeat (TTTA) ₁₂) is present in a majority of breast cancer patients. P450 cholesterol 7 α -hydroxylase, CYP7A1, is the rate limiting enzyme of bile acid synthesis in the liver, and its expression is mediated by the bile acid receptor FXR. CYP27A1 catalyzes vitamin D 25-hydroxylation and is localized to the mitochondria in kidney and liver. |
| Synonyms: | Cytochrome P450 19A1, CYPXIX, Estrogen synthetase, P450AROM, CYP19A1, ARO1, CYAR, CYP19 |
| Protein Families: | Druggable Genome, P450 |
| Protein Pathways: | Androgen and estrogen metabolism, Metabolic pathways |

Product images:


Western blot (WB) analysis of CYP19A1 Antibody (Cat.-No.: [AP20542PU-N]) in extracts from 293 cells.



Immunohistochemistry analysis of CYP19A1 Antibody (Cat.-No.: [AP20542PU-N]) in Paraffin-Embedded Human brain tissue.