

Datasheet for ABIN359737

**anti-Aromatase antibody (C-Term)**[Go to Product page](#)**2** Images

## Overview

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Quantity:            | 0.4 mL                                                                                                       |
| Target:              | Aromatase (CYP19A1)                                                                                          |
| Binding Specificity: | AA 461-491, C-Term                                                                                           |
| Reactivity:          | Human                                                                                                        |
| Host:                | Rabbit                                                                                                       |
| Clonality:           | Polyclonal                                                                                                   |
| Conjugate:           | This Aromatase antibody is un-conjugated                                                                     |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA) |

## Product Details

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Immunogen:                  | KLH conjugated synthetic peptide between 461~491 amino acids from the C-terminal region of Human CYP19A1. Genename: CYP19A1 |
| Isotype:                    | Ig Fraction                                                                                                                 |
| Specificity:                | This antibody detects Aromatase (CYP19A1) at C-term.                                                                        |
| Cross-Reactivity (Details): | Species reactivity (tested):Human.                                                                                          |
| Purification:               | Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS                                 |

## Target Details

|         |                     |
|---------|---------------------|
| Target: | Aromatase (CYP19A1) |
|---------|---------------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | Aromatase ( <a href="#">CYP19A1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Background:       | 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.Synonyms: ARO1, CYAR, CYP19, CYP19A1, CYPXIX, Cytochrome P450 19A1, Estrogen synthetase, P450AROM |
| Molecular Weight: | 57883 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene ID:          | 1588, 9606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UniProt:          | <a href="#">P11511</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pathways:         | <a href="#">Metabolism of Steroid Hormones and Vitamin D</a> , <a href="#">Steroid Hormone Biosynthesis</a> , <a href="#">C21-Steroid Hormone Metabolic Process</a> , <a href="#">Carbohydrate Homeostasis</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Application Details

|                    |                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | ELISA: 1/1,000. Western blot: 1/50-1/100. Immunohistochemistry on Paraffin Sections: 1/10-1/50.<br><br>Other applications not tested.<br><br>Optimal dilutions are dependent on conditions and should be determined by the user. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                            |

## Handling

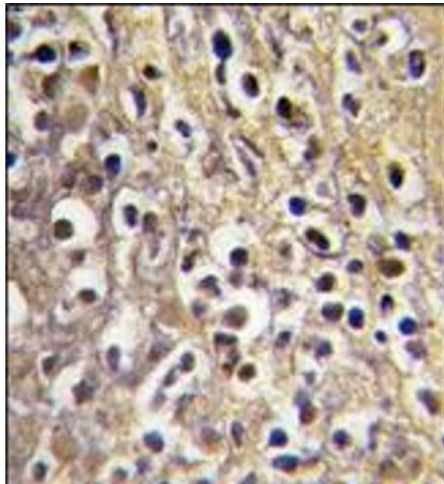
|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 0.25 mg/mL                                                                                                             |
| Buffer:            | PBS with 0.09 % (W/V) Sodium Azide as preservative                                                                     |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice:   | Avoid repeated freezing and thawing.                                                                                   |

## Handling

Storage: 4 °C/-20 °C

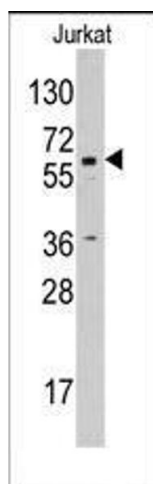
Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** AP14221PU-N CYP19A1 antibody staining of Formalin-Fixed, Paraffin-Embedded Human placenta tissue using peroxidase-conjugate and DAB chromogen.



### Western Blotting

**Image 2.** 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.