

Datasheet for ABIN391826

anti-Aromatase antibody (C-Term)**3** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	Aromatase (CYP19A1)
Binding Specificity:	AA 453-485, 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))

Product Details

Immunogen:	This Aromatase (CYP19A1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 453-485 amino acids from the C-terminal region of human Aromatase (CYP19A1).
Clone:	RB14708
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Aromatase (CYP19A1)
Alternative Name:	Aromatase (CYP19A1) (CYP19A1 Products)

Target Details

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.
Molecular Weight:	57883
Gene ID:	1588
NCBI Accession:	NP_000094 , NP_112503
UniProt:	P11511
Pathways:	Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process , Carbohydrate Homeostasis

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

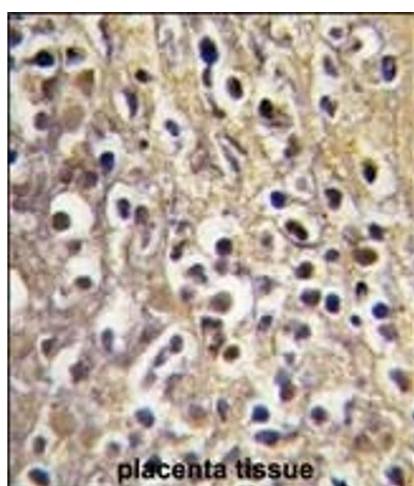
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

Publications

Product cited in: Ding, Li, Wang, Wang, Wu, Chen, Lv, Wang, Huang: "Different therapeutic effects of cells derived from human amniotic membrane on premature ovarian aging depend on distinct cellular biological characteristics." in: **Stem cell research & therapy**, Vol. 8, Issue 1, pp. 173, (2018) ([PubMed](#)).

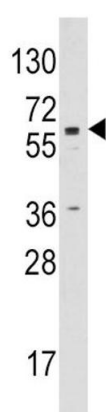
Licznarska, Szafer, Wierzchowski, Sobierajska, Baer-Dubowska: "Resveratrol and its methoxy derivatives modulate the expression of estrogen metabolism enzymes in breast epithelial cells by AhR down-regulation." in: **Molecular and cellular biochemistry**, Vol. 425, Issue 1-2, pp. 169-179, (2017) ([PubMed](#)).

Images



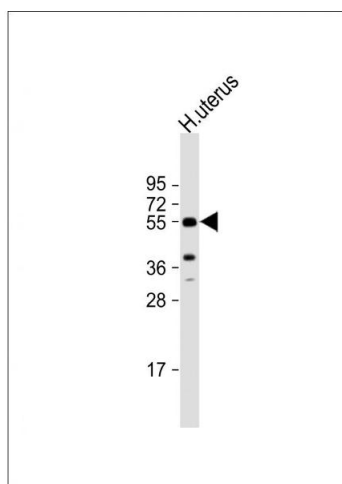
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human placenta tissue reacted with CYP19A1 antibody (C-term) (ABIN391826 and ABIN2841671), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of anti-CYP19A1 Pab (ABIN391826 and ABIN2841671) in Jurkat cell line lysates (35 µg/lane). CYP19A1 (arrow) was detected using the purified Pab.



Western Blotting

Image 3. Anti-CYP19A1 Antibody (C-term) at 1:1000 dilution + human uterus lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.