Product datasheet

Anti-CYP19A1 Antibody

Catalog Number: *A00071*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-CYP19A1 Antibody
Gene Name	CYP19A1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IHC-F, ICC, FCM, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E. coli-derived human CYP19A1 recombinant protein (Position: Y241-H503).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	58KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section: 1:50-400 Immunocytochemistry in fixed cells: 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (ELISA)： 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

CYP19A1, also called Aromatase, is an enzyme responsible for a key step in the biosynthesis of estrogens. It is a member of the cytochrome P450 superfamily, which are monooxygenases that catalyze many reactions involved in steroidogenesis. In particular, aromatase is responsible for the aromatization of androgens into estrogens. The CYP19 gene spans at least 70 kb of genomic DNA and contains 10 exons. By in situ hybridization, the ARO gene is mapped to 15q21.1. The aromatase enzyme can be found in many tissues including gonads, brain, adipose tissue, placenta, blood vessels, skin, bone, and endometrium, as well as in tissue of endometriosis, uterine fibroids, breast cancer, and endometrial cancer. It is an important factor in sexual development. Some bodybuilders taking steroids also take antiaromatase supplements to prevent excess testosterone conversion into estrogens, which can cause gynecomastia.

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Selected Validation Data

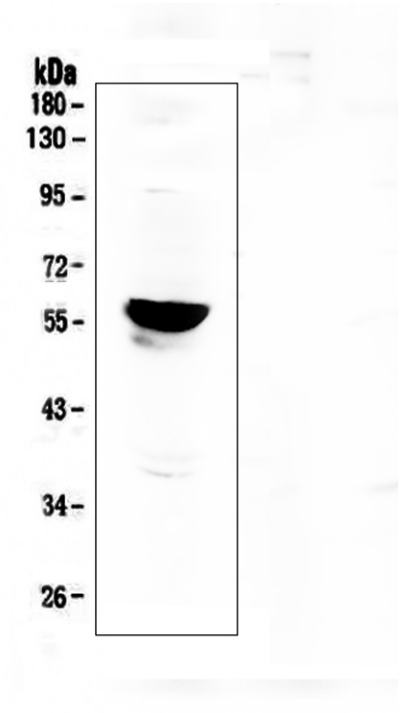

Figure 1. Western blot analysis of Aromatase using anti-Aromatase antibody (A00071). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysate. probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for Aromatase at approximately 58KD. The expected band size for Aromatase is at 58KD.

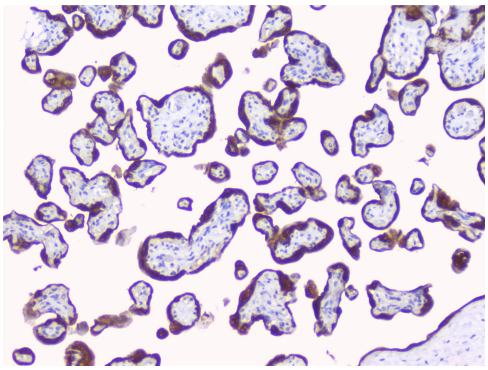

Figure 2. IHC analysis of Aromatase using anti-Aromatase antibody (A00071).
Aromatase was detected in paraffin-embedded section of human placenta tissues.Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

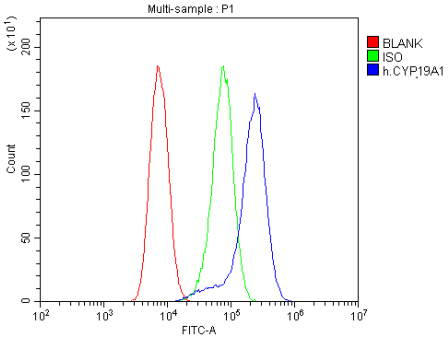

Figure 6. Flow Cytometry analysis of U20S cells using anti-Aromatase antibody (A00071).
Overlay histogram showing U20S cells stained with A00071 (Blue line).. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10^6 cells) was used as secondary antibody Isotype control antibody (Green line) was rabbit IgG (1µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.