

Anti-Aromatase/CYP19A1 Antibody

Catalog Number: PA1489

About CYP19A1

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.

Overview

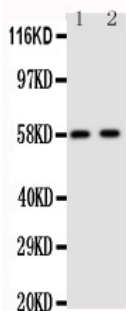
Product Name	Anti-Aromatase/CYP19A1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Aromatase/CYP19A1 Antibody catalog # PA1489. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P11511

Technical Details

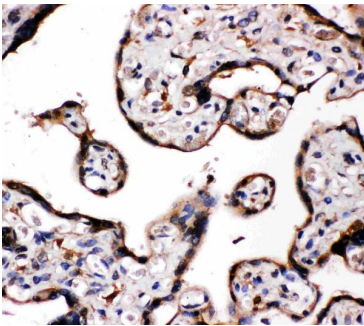
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aromatase.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-Aromatase/CYP19A1 Antibody (PA1489) Images



Anti-Aromatase antibody, PA1489, Western blotting
Lane 1: Human Placenta Tissue Lysate
Lane 2: Human Placenta Tissue Lysate



Anti-Aromatase antibody, PA1489, IHC(P)
IHC(P): Human Placenta Tissue

4 Publications Citing This Product

1. PubMed ID: 15661083, Extragonadal aromatization increases with time after ovariectomy in rats
2. PubMed ID: 15777765, Electroacupuncture enhances extragonadal aromatization in ovariectomized rats
3. PubMed ID: 28649090, Zhang, L., Zhang, X., Zhang, X., Lu, Y., Li, L., & Cui, S. (2017). MiRNA-143 mediates the proliferative signaling pathway of FSH and regulates estradiol production. Journal of Endocrinology, 234(1),1-14. doi: 10.1530/JOE-16-0488

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