

## Anti-Aromatase/CYP19A1 Antibody Picoband®

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

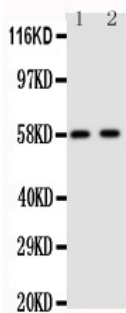
Product Name	Anti-Aromatase/CYP19A1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Aromatase/CYP19A1 Antibody catalog # PA1489. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

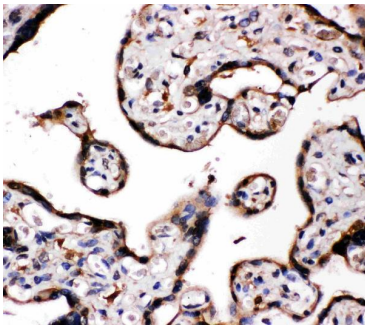
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aromatase.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

## Anti-Aromatase/CYP19A1 Antibody Picoband® (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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