

Anti-CYP11B1 Antibody Picoband®

Catalog Number: PA1699

About CYP11B1

CYP11B1 (Cytochrome p450, family 11, subfamily B, polypeptide 1), also called Steroid 11-beta-hydroxylase or P450C11, is a steroid hydroxylase found in the zona fasciculata. The CYP11B1 gene functions primarily in mitochondria in the zona fasciculata of the adrenal cortex to convert 11-deoxycortisol to cortisol and 11-deoxycorticosterone to corticosterone. CYP11B1 is a member of the cytochrome P450 superfamily of enzymes. It is mapped on 8q24.3. The CYP11B1 gene contains 9 exons and spans 6.5 kb. Using RT-PCR, Kayes-Wandover and White detected CYP11B1 mRNA in human cardiac tissue samples from left and right atria, aorta, apex, intraventricular septum, and atrioventricular node, as well as whole adult and fetal heart. Ventricles did not express CYP11B1. In patients with 11-beta-hydroxylase deficiency leading to hypertension and congenital adrenal hyperplasia, Pascoe et al. identified mutations in the CYP11B1 gene.

Overview

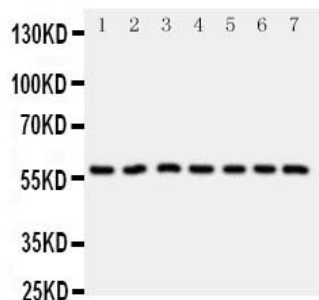
Product Name	Anti-CYP11B1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-CYP11B1 Antibody catalog # PA1699. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	P15538

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CYP11B1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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	Western blot, 0.1-0.5ug/ml, Human

Anti-CYP11B1 Antibody Picoband® (PA1699) Images



Anti-CYP11B1 antibody, PA1699, Western blotting All lanes:
Anti CYP11B1 (PA1699) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: U87 Whole Cell Lysate at 40ug Lane 3: MM231 Whole Cell Lysate at 40ug Lane 4: PANC Whole Cell Lysate at 40ug Lane 5: MM453 Whole Cell Lysate at 40ug Lane 6: HELA Whole Cell Lysate at 40ug Lane 7: SMMC Whole Cell Lysate at 40ug Predicted bind size: 58KD Observed bind size: 58KD

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Anti-CYP11B1 Antibody

For Research Use Only. Not for use in diagnostic procedures.