

Anti-CYP11A1 Antibody

Catalog Number: PA1698-1

About Cyp11a1

CYP11A1 (Cytochrome p450, family 11, subfamily A, polypeptide 1), also called CYTOCHROME P450SCC, CYTOCHROME P450C11A1 or CYP11A, is a mitochondrial enzyme associated with the conversion of cholesterol to pregnenolone. CYP11A1 is a member of the cytochrome P450 superfamily of enzymes. The CYP11A1 gene is mapped on 15q24.1. Expression of the CYP11A1 gene may play a role in skin physiology and pathology and that cutaneous proopiomelanocortin activity may be autoregulated by a feedback mechanism involving glucocorticoids synthesized locally by Slominski et al. Using in vitro studies, CYP11A1 catalyzed the side-chain cleavage of 7-dehydrocholesterol to form 7-dehydropregnenolone. In addition, CYP11A1 catalyzed the metabolism of biologically inert vitamin D₃, which is formed from 7-dehydrocholesterol, to form 2 hydroxylated products, 20-hydroxyvitamin D₃ and 20, 22-dihydroxyvitamin D₃. Mutations in the CYP11A1 gene cause congenital adrenal insufficiency with partial or complete 46, XY sex reversal.

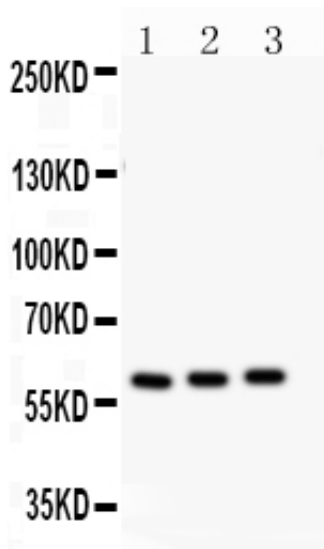
Overview

Product Name	Anti-CYP11A1 Antibody
Reactive Species	Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1) detection. Tested with WB in Mouse; Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₂ S ₂ O ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9QZ82

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse CYP11A1(53-66aa DNGWLNLYHFWRES), different from the related rat sequence by two amino acids.
Predicted Reactive Species	Bovine
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	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5 μ g/ml, Mouse, Rat For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-CYP11A1 Antibody (PA1698-1) Images



Anti-CYP11A1 antibody, PA1698-1, Western blotting
All lanes: Anti CYP11A1 (PA1698-1) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 50ug
Lane 2: Mouse Testis Tissue Lysate at 50ug
Lane 3: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 60KD
Observed bind size: 60KD

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