

## Anti-CYP11A1 Antibody Picoband® PE Conjugated

Catalog Number: A01071-2-PE

### About CYP11A1

CYP11A1 (Cytochrome p450, family 11, subfamily A, polypeptide 1), commonly referred to as P450<sub>scc</sub>, 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. 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 D<sub>3</sub>, which is formed from 7-dehydrocholesterol, to form 2 hydroxylated products, 20-hydroxyvitamin D<sub>3</sub> and 20, 22-dihydroxyvitamin D<sub>3</sub>. Mutations in the CYP11A1 gene cause congenital adrenal insufficiency with partial or complete 46, XY sex reversal.

### Overview

Product Name	Anti-CYP11A1 Antibody Picoband® PE Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P05108

### Technical Details

Immunogen	E.coli-derived human CYP11A1 recombinant protein (Position: H72-Q461).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	PE Excitation Wavelength: 566 nm Emission Wavelength: 574 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

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Anti-CYP11A1 Antibody - PE

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