

Anti-CYP51A1/CYP51 Antibody Picoband® PE Conjugated

Catalog Number: A04032-1-PE

About CYP51A1

P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endogenous and xenobiotic compounds. Several P450 enzymes have been classified by sequence similarities as members of the CYP1A and CYP2A subfamilies. CYP51A1 (cytochrome P450, family 51, subfamily A, polypeptide 1), also known as LDM (lanosterol 14- α demethylase) or cytochrome P450-14DM, is a 503 amino acid protein localized to endoplasmic reticulum membrane. CYP51A1 is an important enzyme for zymosterol and steroid biosynthesis. CYP51A1 catalyzes C14-demethylation of lanosterol, transforming lanosterol into 4,4'-dimethyl cholesta-8,14,24-triene-3- β -ol. CYP51A1 is ubiquitously expressed, with highest levels found in liver, ovary, testis, lung, kidney and prostate.

Overview

Product Name	Anti-CYP51A1/CYP51 Antibody Picoband® PE Conjugated
Reactive Species	Human, Monkey, Mouse
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, ICC, 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 ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q16850

Technical Details

Immunogen	E.coli-derived human CYP51A1/CYP51 recombinant protein (Position: K141-K503).
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-CYP51A1/CYP51 Antibody - PE

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