

## Rabbit Anti-CYP51A1/PE Conjugated antibody

SL15409R-PE

<b>Product Name</b>	Anti-CYP51A1/PE
<b>Chinese Name</b>	PE 标记的羊毛甾醇 14 $\alpha$ -去甲基化酶蛋白抗体
<b>Alias</b>	Lanosterol 14-alpha demethylase; LDM; CYPLI; Cytochrome P450 51A1; Cytochrome P450-14DM; Cytochrome P45014DM; Cytochrome P450LI; Sterol 14-alpha demethylase; CP51A_HUMAN.
<b>Research Area</b>	Cell biology immunology
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Sheep) ICC/IF=1:50-200,IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	57kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human CYP51A1
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein participates in the

synthesis of cholesterol by catalyzing the removal of the 14 $\alpha$ -methyl group from lanosterol. Homologous genes are found in all three eukaryotic phyla, fungi, plants, and animals, suggesting that this is one of the oldest cytochrome P450 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

**Function:**

Catalyzes C14-demethylation of lanosterol; it transforms lanosterol into 4,4'-dimethyl cholesta-8,14,24-triene-3-beta-ol.

**Subcellular Location:**

Endoplasmic reticulum membrane (Potential). Microsome membrane (Potential).

**Tissue Specificity:**

Ubiquitously expressed with highest levels in testis, ovary, adrenal, prostate, liver, kidney and lung.

**Similarity:**

Belongs to the cytochrome P450 family.

**Database links:**

[Entrez Gene: 1595](#) Human

[Omim: 601637](#) Human

[SwissProt: Q16850](#) Human

[Unigene: 417077](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.