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[Primary Antibody]

Rabbit Anti-CYP51A1 antibody

Catalog Number: SL15409R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CYP51A1
Immunogen:	KLH conjugated synthetic peptide derived from human CYP51A1: 411-503/503
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Sheep)
Predicted MW.:	57kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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 14alpha-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

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	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

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