



Anti-CYP51A1 (aa 410-509) polyclonal antibody (DPAB-DC695)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	CYP51A1 (NP_000777, 410 a.a. ~ 509 a.a) partial recombinant protein with GST tag. The sequence is SPTVNQRLKDSWVERLDFNPDRYLQDNPASGEKFAYVPFGAGRHCIGENFAYVQIKTIW STMLRLYEFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CYP51A1 cytochrome P450, family 51, subfamily A, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP51A1
Synonyms	CYP51A1; cytochrome P450, family 51, subfamily A, polypeptide 1; LDM; CP51; CYP51; CYPL1; P450L1; P450-14DM; lanosterol 14-alpha demethylase; CYPLI; cytochrome P450LI; cytochrome P45014DM; cytochrome P450 51A1; cytochrome P450-14DM; sterol 14-alpha demethylase; lanosterol 14-alpha-demethylase; cytochrome P450, 51 (lanosterol 14-alpha-demethylase);
Entrez Gene ID	1595
Protein Refseq	NP_000777
UniProt ID	Q16850
Chromosome Location	7q21.2
Pathway	Activation of gene expression by SREBF (SREBP); Cholesterol biosynthesis; cholesterol; cholesterol
Function	heme binding; iron ion binding; sterol 14-demethylase activity;