

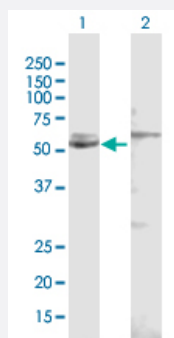
MaxPab®

CYP51A1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00001595-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of CYP51A1 expression in transfected 293T cell line ([H00001595-T01](#)) by CYP51A1 MaxPab polyclonal antibody.

Lane 1: CYP51A1 transfected lysate(55.99 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human CYP51A1 protein.

Immunogen

CYP51A1 (ABM85421.1, 1 a.a. ~ 509 a.a) full-length human protein.

Sequence

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKS
PPYIFSPIPFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFYLLGSDAAALLFNSKNEDLNAE
DVYSRLTTPVFGKGVAYDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIEKETKEYFESWGESGEKN
VFEALSELILTASHCLHGKEIRSQLEKVAQLYADLDGGFSHAAWLLPGWLPLPSFRRRDRAHRE
IKDIFYKAIQRRQSQEKIDILQTLDDATYKDGRLTDDEVAGMLIGLLLQHTSSTTSAWMGFFL
ARDKTLQKKCYLEQKTVCGENLPPLTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAG
YTIPPGHQVCVSPVTNQRKDSWVERLDFNPDRYLQDNPASGEKFAYVPFGAGRHRICIGENFAY
VQIKTWSTMLRLYFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK

Host

Rabbit

Reactivity

Human

Interspecies Antigen Sequence

Mouse (91); Rat (93)

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — CYP51A1

Entrez GeneID

[1595](#)

GeneBank Accession#

[DQ894495.2](#)

Protein Accession#

[ABM85421.1](#)

Gene Name

CYP51A1

Gene Alias

CP51, CYP51, CYPL1, LDM, P450-14DM, P450L1

Gene Description

cytochrome P450, family 51, subfamily A, polypeptide 1

Omim ID

[601637](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

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]

Other Designations

cytochrome P450, 51 (lanosterol 14-alpha-demethylase)|cytochrome P450, family 51|lanosterol 14-alpha-demethylase|sterol 14-alpha demethylase

Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Metabolic pathways](#)
- [Steroid biosynthesis](#)

Disease

- [Kidney Failure](#)