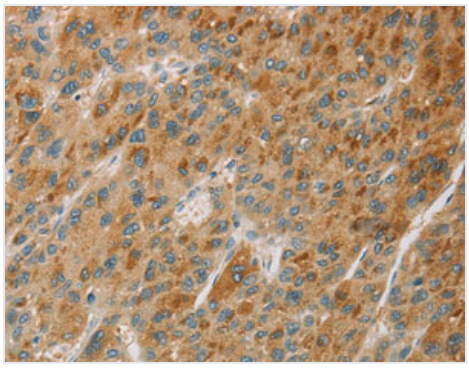
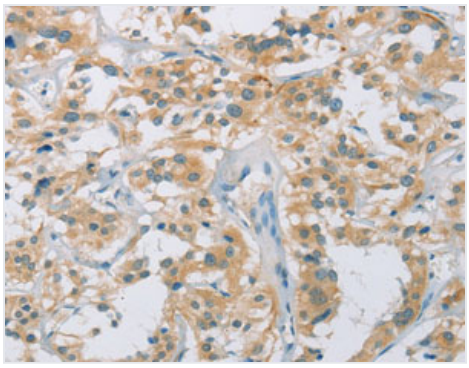
CYP11B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYP11B1, Polyclonal Antibody
Full Product Name	CYP11B1 Polyclonal Antibody
Product Gene Name	anti-CYP11B1 antibody
Product Synonym Names	FHI; CPN1; CYP11B; P450C11
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% sodium azide, 50% glycerol, PH7.3
Purity/Purification	Affinity purification
Preparation and Storage	Store at 20°C. Avoid freeze / thaw cycles.
OMIM	103900
3D Structure	ModBase 3D Structure for P15538
Immunogen	Recombinant protein of human CYP11B1
Product Categories/Family for anti-CYP11B1 antibody	Epigenetics
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYP11B1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-CYP11B1 antibody	IHC: 1:50-1:200
Related Product Information for anti-CYP11B1 antibody	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 protein localizes to the mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene.
Other Notes	Small volumes of anti-CYP11B1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYP11B1 purchase	MBS2527516 is an antibody targeting CYP11B1. Also known as CYP11B1 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CYP11B1 antibody
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using CYP11B1 Polyclonal Antibody at dilution 1:30



Immunohistochemistry (IHC) of anti-CYP11B1 antibody
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using CYP11B1 Polyclonal Antibody at dilution 1:30

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP11B1. It may not necessarily be applicable to this product.

NCBI GI #	71067343
NCBI GeneID	1584
NCBI Accession #	NP_001021384.1
UniProt Primary Accession #	P15538
UniProt Secondary Accession #	Q14095; Q4VAQ8; Q4VAQ9; Q9UML2
UniProt Related Accession #	P15538
GenBank Nucleotide #	NM_001026213.1
NCBI Official Full Name	cytochrome P450 11B1, mitochondrial isoform 2
NCBI Official Synonym Full Names	cytochrome P450, family 11, subfamily B, polypeptide 1
NCBI Official Symbol	CYP11B1
NCBI Official Synonym Symbols	FHI; CPN1; CYP11B; P450C11
UniProt Protein Name	Cytochrome P450 11B1, mitochondrial
UniProt Synonym Protein Names	CYPXIB1; Cytochrome P-450c11; Cytochrome P450C11; Steroid 11-beta-hydroxylase (EC:1.14.15.4)
Protein Family	Cytochrome
UniProt Gene Name	CYP11B1
UniProt Synonym Gene Names	S11BH; Cytochrome P450C11
UniProt Entry Name	C11B1_HUMAN
NCBI Protein Information	cytochrome P450 11B1, mitochondrial; CYPXIB1; cytochrome P-450c11; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 1; cytochrome P450C11; cytochrome p450 XIB1; steroid 11-beta-monooxygenase

UniProt Comments for CYP11B1	CYP11B1: Has steroid 11-beta-hydroxylase activity. In addition to this activity, the 18 or 19-hydroxylation of steroids and the aromatization of androstendione to estrone have also been ascribed to cytochrome P450 XIB. Defects in CYP11B1 are the cause of adrenal hyperplasia type 4 (AH4). AH4 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: salt wasting (SW, the most severe type), simple virilizing (SV, less severely affected patients), with normal aldosterone biosynthesis, non-classic form or late onset (NC or LOAH), and cryptic (asymptomatic). AH4 patients usually have hypertension. Defects in CYP11B1 are a cause of familial hyperaldosteronism type 1 (FH1). It is a disorder characterized by hypertension, variable hyperaldosteronism, and abnormal adrenal steroid production, including 18-oxocortisol and 18-hydroxycortisol. There is significant phenotypic heterogeneity, and some individuals never develop hypertension. The molecular defect causing hyperaldosteronism familial type 1 is an anti-Lepore-type fusion of the CYP11B1 and CYP11B2 genes. The hybrid gene has the promoting part of CYP11B1, ACTH-sensitive, and the coding part of CYP11B2. Belongs to the cytochrome P450 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; EC 1.14.15.4; Mitochondrial; Lipid Metabolism - androgen and estrogen; Lipid Metabolism - C21-steroid hormone Chromosomal Location of Human Ortholog: 8q21 Cellular Component: mitochondrion; mitochondrial inner membrane Molecular Function: steroid 11-beta-monooxygenase activity; iron ion binding; heme binding Biological Process: steroid metabolic process; regulation of blood pressure; xenobiotic metabolic process; C21-steroid hormone biosynthetic process; immune response; glucocorticoid biosynthetic process; glucose homeostasis; sterol metabolic process; aldosterone biosynthetic process; cellular response to hormone stimulus Disease: Glucocorticoid-remediable Aldosteronism; Adrenal Hyperplasia, Congenital, Due To Steroid 11-beta-hydroxylase Deficiency
Research Articles on CYP11B1	**1.** Data from recombinant proteins suggest three additional mutations in CYP11B1 (p.His125Thrfs*8; p.Leu463_Leu464dup; p.Ser150Leu) can account for congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency (classical/non-classical phenotype).
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