



Anti-CYP11B1 monoclonal antibody (DCABH-11175)

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 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.
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Immunogen	A synthetic peptide of human CYP11B1 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CYP11B1 cytochrome P450, family 11, subfamily B, polypeptide 1 [Homo sapiens]
Official Symbol	CYP11B1
Synonyms	CYP11B1; cytochrome P450, family 11, subfamily B, polypeptide 1; CYP11B, cytochrome P450, subfamily XIB (steroid 11 beta hydroxylase), polypeptide 1; cytochrome P450 11B1, mitochondrial; CPN1; FHI; P450C11; CYPXIB1; cytochrome P450C11; cytochrome P-450c11; cytochrome p450 XIB1; steroid 11-beta-hydroxylase; steroid 11-beta-monooxygenase; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 1; CYP11B; FLJ36771; DKFZp686B05283;
Entrez Gene ID	1584
Protein Refseq	NP_000488
UniProt ID	P15538
Chromosome Location	8q21-q22
Pathway	Biological oxidations, organism-specific biosystem; C21-Steroid hormone biosynthesis, progesterone => corticosterone/aldosterone, organism-specific biosystem; corticosterone/aldosterone, conserved biosystem; cortisol/cortisone, organism-specific biosystem.
Function	electron carrier activity; heme binding; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid 11-beta-monooxygenase activity; steroid 11-bet