



Rabbit anti-Human CYP11A1 Polyclonal antibody (CPBT-31205RH)

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

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human CYP11A1.
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 catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide.
Immunogen	A synthetic peptide corresponding to a region of Human CYP11A1
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ICC/IF, IHC-P, WB, ELISA
Sequence Similarities	Belongs to the cytochrome P450 family.
Cellular Localization	Mitochondrion membrane.
Format	Liquid

Size	50 µg
Buffer	Preservative: None Constituents: 2% Sucrose, PBS
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	CYP11A1 cytochrome P450, family 11, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP11A1
Synonyms	CYP11A1; cytochrome P450, family 11, subfamily A, polypeptide 1; CYP11A,cytochrome P450, subfamily XIA (cholesterol side chain cleavage); cholesterol side-chain cleavage enzyme, mitochondrial; cholesterol monooxygenase (side chain cleaving); P450SCC; mitochondrial; Cholesterol 20 22 desmolase; Cholesterol desmolase; Cholesterol monooxygenase (side chain cleaving); Cholesterol side chain cleavage enzyme; Cholesterol side-chain cleavage enzyme; CP11A_HUMAN; CYP 11A; CYP11A; CYP11A1; CYPXIA1; Cytochrome P450 11A1; Cytochrome P450 11A1 mitochondrial; Cytochrome P450 family 11 subfamily A polypeptide 1; Cytochrome P450 subfamily XIA (cholesterol side chain cleavage); Cytochrome P450 subfamily XIA; Cytochrome P450(scc); Cytochrome P450C11A1; P450(scc); P450SCC; Steroid 20 22 lyase; CYPXIA1; steroid 20-22-lyase; cytochrome P450 11A1; cytochrome P450(scc); cytochrome P450C11A1; cholesterol 20-22 desmolase; cholesterol monooxygenase (side-chain cleaving); cytochrome P450, subfamily XIA (cholesterol side chain cleavage); CYP11A;
Entrez Gene ID	1583
Protein Refseq	NP_000772
UniProt ID	P05108
Chromosome Location	15q23-q24
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem; Glucocorticoid & Mineralcorticoid Metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; P
Function	cholesterol binding; cholesterol monooxygenase (side-chain-cleaving) activity; cholesterol monooxygenase (side-chain-cleaving) activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on