Rabbit anti-Human, Rat Cytochrome P450 C21 Polyclonal Antibody | anti-CYP21A2 antibody

Cytochrome P450 C21 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325384	**Rabbit**	**Human, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Cytochrome P450 C21; Polyclonal Antibody; Cytochrome P450 C21 Antibody; CYP21; 21 OHase; 21-OHase; CA21H; CAH1; CP21A_HUMAN; CPS1; CYP21A 2; CYP21A2; CYP21B; Cytochrome P-450c21; Cytochrome P450 21; Cytochrome P450 C21B; Cytochrome P450 XXI; Cytochrome P450; family 21; subfamily A; polypeptide 2; subfamily XXIA (steroid 21 hydroxylase; congenital adrenal hyperplasia); Cytochrome P450-C21; Cytochrome P450-C21B; P450 C21; P450 C21B; P450c21B; Steroid 21 hydroxylase; Steroid 21 monooxygenase; Steroid 21-hydroxylase; anti-CYP21A2 antibody

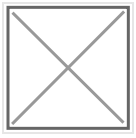
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Cytochrome P450 C21 antibody detects endogenous levels of total Cytochrome P450 C21
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	495
Applicable Applications for anti-CYP21A2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endoplasmic Reticulum Membrane. Microsome Membrane.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IF (Immunofluorescence)
AAA325384 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

IHC (Immunohiostchemistry)
AAA325384 at 1/100 staining Human lung cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from Jurkat/293 cells, using CYP21A2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP21A2 antibody	Function: Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids (PubMed:22014889). Similarity: The leucine-rich hydrophobic amino acid N-terminal region probably helps to anchor the protein to the microsomal membrane. Belongs to the cytochrome P450 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	323510663
NCBI GeneID	1589
NCBI Accession #	NP_000491.4
NCBI GenBank Nucleotide #	NM_000500.9
UniProt Accession #	P08686; P04033; Q01204; Q08AG8; Q16749; Q16806; Q5ST44; Q96NU8; A2BHY6
Molecular Weight	Observed: 56 kD Predicted: 56 kDa
NCBI Official Full Name	steroid 21-hydroxylase isoform a
NCBI Official Synonym Full Names	cytochrome P450 family 21 subfamily A member 2
NCBI Official Symbol	CYP21A2
NCBI Official Synonym Symbols	CAH1; CPS1; CA21H; CYP21; CYP21B; P450c21B
NCBI Protein Information	steroid 21-hydroxylase
UniProt Protein Name	Steroid 21-hydroxylase
UniProt Gene Name	**CYP21A2**
UniProt Synonym Gene Names	CYP21; CYP21B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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