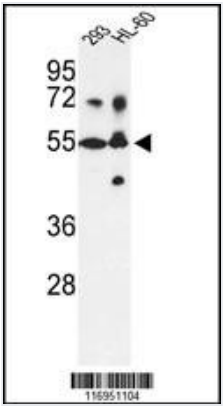
CYP21A2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYP21A2, Polyclonal Antibody
Full Product Name	CYP21A2, NT (Steroid 21-hydroxylase, Cytochrome P450 21, Cytochrome P450 XXI, 21-OHase, Cytochrome P450-C21, Cytochrome P-450c21, Cytochrome P450-C21B, CYP21, CYP21B) (APC)
Product Gene Name	anti-CYP21A2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CYP21A2.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	52,597 Da
OMIM	201910
3D Structure	ModBase 3D Structure for P08686
Immunogen	Synthetic peptide selected from the N-terminal region of human CYP21A2 (KLH).
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-CYP21A2 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-CYP21A2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CYP21A2 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CYP21A2 antibody	MBS6471307 is an antibody targeting CYP21A2. Also known as CYP21A2, NT (Steroid 21-hydroxylase, Cytochrome P450 21, Cytochrome P450 XXI, 21-OHase, Cytochrome P450-C21, Cytochrome P-450c21, Cytochrome P450-C21B, CYP21, CYP21B) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CYP21A2 antibody	1. Guerra-Junior, G., Clin. Exp. Immunol. 155(2), 182-188 (2009). 2. Abid, F., Clin. Chem. Lab. Med. 46(12), 1707-1713 (2008). 3. Nelson, D.R., Pharmacogenetics 14(1), 1-18 (2004).
Other Notes	Small volumes of anti-CYP21A2 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.



Western Blot (WB) of anti-CYP21A2 antibody
Western blot analysis of CYP21A2 Antibody (N-term) in 293, HL-60 cell line lysates (35ug/lane). CYP21A2 (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP21A2. It may not necessarily be applicable to this product.

NCBI GI #	323510663
NCBI GeneID	1589
NCBI Accession #	NP_000491
UniProt Primary Accession #	P08686
UniProt Secondary Accession #	P04033; Q01204; Q08AG8; Q16749; Q16806; Q5ST44; Q96NU8; A2BHY6
UniProt Related Accession #	P08686
GenBank Nucleotide #	NM_000500
NCBI Official Full Name	steroid 21-hydroxylase isoform a
NCBI Official Synonym Full Names	cytochrome P450, family 21, subfamily A, polypeptide 2
NCBI Official Symbol	CYP21A2
NCBI Official Synonym Symbols	CAH1; CPS1; CA21H; CYP21; CYP21B; P450c21B
UniProt Protein Name	Steroid 21-hydroxylase
UniProt Synonym Protein Names	21-OHase; Cytochrome P-450c21; Cytochrome P450 21; Cytochrome P450 XXI; Cytochrome P450-C21; Cytochrome P450-C21B
UniProt Gene Name	CYP21A2
UniProt Synonym Gene Names	CYP21; CYP21B
UniProt Entry Name	CP21A_HUMAN
NCBI Protein Information	steroid 21-hydroxylase; 21-OHase; cytochrome P450 XXI; cytochrome P450, subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2; cytochrome P450-C21B; steroid 21-monooxygenase

UniProt Comments for CYP21A2	CYP21A2: Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids. Defects in CYP21A2 are the cause of adrenal hyperplasia type 3 (AH3). AH3 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). Belongs to the cytochrome P450 family. Protein type: EC 1.14.99.10; Oxidoreductase; Lipid Metabolism - C21-steroid hormone Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: endoplasmic reticulum membrane Molecular Function: steroid 21-monooxygenase activity; iron ion binding; heme binding; steroid hydroxylase activity; steroid binding Biological Process: steroid metabolic process; xenobiotic metabolic process; mineralocorticoid biosynthetic process; glucocorticoid biosynthetic process; sterol metabolic process Disease: Adrenal Hyperplasia, Congenital, Due To 21-hydroxylase Deficiency
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