

Rabbit anti-Human CYP21A2 Polyclonal Antibody | anti-CYP21A2 antibody

CYP21A2 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289894	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

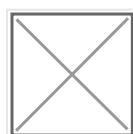
PRODUCT SYNONYMS

CYP21A2; Polyclonal Antibody; CYP21A2 Antibody (Center); Steroid 21-hydroxylase; 21-OHase; Cytochrome P-450c21; Cytochrome P450 21; Cytochrome P450 XXI; Cytochrome P450-C21; Cytochrome P450-C21B; CYP21; CYP21B; anti-CYP21A2 antibody

PRODUCT SPECIFICATIONS

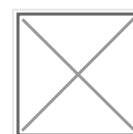
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CYP21A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 216-246 amino acids from the Central region of human CYP21A2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	216-246
Sequence Length	465
Applicable Applications for anti-CYP21A2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Function	Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids (PubMed:).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescent analysis of CYP21A2 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



FCM/FACS (Flow Cytometry)

CYP21A2 Antibody (Center) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human breast carcinoma reacted with CYP21A2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of CYP21A2 Antibody (Center) in MDA-MB435 cell line lysates (35ug/lane). CYP21A2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP21A2 antibody	CYP21A2 is 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 endoplasmic reticulum and hydroxylates steroids at the 21 position. Its activity is required for the synthesis of steroid hormones including cortisol and aldosterone. Mutations in CYP21A2 gene cause congenital adrenal hyperplasia.
Product Categories/Family for anti-CYP21A2 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	Guerra-Junior,G., Clin. Exp. Immunol. 155 (2), 182-188 (2009) Abid,F., Clin. Chem. Lab. Med. 46 (12), 1707-1713 (2008) Nelson,D.R., Pharmacogenetics 14 (1), 1-18 (2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	323510663
NCBI GeneID	1589
NCBI Accession #	NP_000491.4; NP_001122062.3
NCBI GenBank Nucleotide #	NM_000500.7
UniProt Accession #	P08686; P04033; Q01204; Q08AG8; Q16749; Q16806; Q5ST44; Q96NU8; A2BHY6
Molecular Weight	55887
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
NCBI Protein Information	steroid 21-hydroxylase
UniProt Protein Name	Steroid 21-hydroxylase
UniProt Gene Name	CYP21A2
UniProt Synonym Gene Names	CYP21; CYP21B
UniProt Entry Name	CP21A_HUMAN

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyp21a2-antibody-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/289894>