

CYP11A1 rabbit monoclonal antibody

Catalog # H00001583-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human CYP11A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human CYP11A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human CYP11A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — CYP11A1

Entrez GeneID	1583
GeneBank Accession#	CYP11A1
Gene Name	CYP11A1
Gene Alias	CYP11A, P450SCC
Gene Description	cytochrome P450, family 11, subfamily A, polypeptide 1
Omim ID	118485 201710
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	cholesterol 20-22 desmolase cholesterol monooxygenase (side-chain cleaving) cytochrome P450, subfamily XIA cytochrome P450, subfamily XIA (cholesterol side chain cleavage) cytochrome P450C11A1 steroid 20-22-lyase

Pathway

- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Celiac Disease](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Ductus Arteriosus](#)
- [Endometrial Neoplasms](#)
- [Fibrocystic Breast Disease](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Hyperandrogenism](#)
- [Hypertension](#)
- [Infant](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Ovarian Hyperstimulation Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Recurrence](#)
- [Social Perception](#)
- [Thrombophilia](#)

- [Tobacco Use Disorder](#)