

CYP11A1 FISH Probe

Catalog # FA0350 Size 200 uL

Specification

Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology).
Origin	Human
Source	Genomic DNA
Reactivity	Human
Notice	We strongly recommend the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL) 250 uL
Storage Instruction	Store at 4°C in the dark.

Applications

- Fluorescent In Situ Hybridization (Cell)

[Protocol Download](#)

Gene Info — CYP11A1

Entrez GeneID	1583
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](#)