

# CYP27A1 rabbit monoclonal antibody

Catalog # H00001593-K

Size 100 ug x up to 3

## Specification

|                         |  |
|-------------------------|--|
| Product Description     | Rabbit monoclonal antibody raised against a human CYP27A1 peptide using ARM Technology.  |
| Immunogen               | A synthetic peptide of human CYP27A1 is used for rabbit immunization.<br>Customer or Abnova will decide on the preferred peptide sequence.   |
| Host                    | Rabbit   |
| Library Construction    | Non-fusion antibody library from rabbit spleen ( <a href="#">ARM Technology</a> ).   |
| Expression              | Overexpression vector and transfection into 293H cell line.  |
| Reactivity              | Human  |
| Purification            | Protein A  |
| Isotype                 | IgG  |
| Quality Control Testing | Antibody reactive against human CYP27A1 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.<br>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) <sub>2</sub> , IgG, scFv and different Fc and non-Fc conjugates per customer request. |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

## Gene Info — CYP27A1

|                     |   |
|---------------------|---|
| Entrez GeneID       | <a href="#">1593</a>  |
| GeneBank Accession# | <a href="#">CYP27A1</a>   |
| Gene Name           | CYP27A1   |
| Gene Alias          | CP27, CTX, CYP27  |
| Gene Description    | cytochrome P450, family 27, subfamily A, polypeptide 1  |
| Omim ID             | <a href="#">213700 606530</a>   |
| Gene Ontology       | <a href="#">Hyperlink</a>   |
| 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 mitochondrial protein oxidizes cholesterol intermediates as part of the bile synthesis pathway. Since the conversion of cholesterol to bile acids is the major route for removing cholesterol from the body, this protein is important for overall cholesterol homeostasis. Mutations in this gene cause cerebrotendinous xanthomatosis, a rare autosomal recessive lipid storage disease. [provided by RefSeq] |
| Other Designations  | 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 26-hydroxylase 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase cholestanetriol 26-monooxygenase cytochrome P-450C27/25 cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrot   |

## Pathway

- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Primary bile acid biosynthesis](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)