

# Anti-CYP27A1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

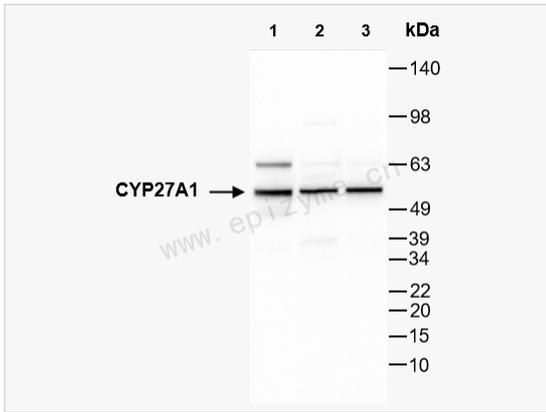
Catalog # R015047

## Product Information

|             |   |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), ELISA  |
| Reactivity  | Human   |
| Dilution    | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200   |
| Host        | Rabbit  |
| Clonality   | Monoclonal  |
| Clone No.   | 20P62M93  |
| Isotype     | IgG   |
| Label       | Unconjugated  |
| Immunogen   | A synthesized peptide derived from human CYP27A1  |
| Format      | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.                     |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-CYP27A1 Rabbit mAb [20P62M93] is for research use only and not for use in diagnostic or therapeutic procedures.        |

## Protein Information

|                   |   |
|-------------------|---|
| Synonyms          | 12-alpha-triol 27-hydroxylase, 5-beta-cholestane-3-alpha, 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 26-hydroxylase, 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase, 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase, 7-alpha, Cholestanetriol 26 monooxygenase, CP27, CP27A_HUMAN, CTX, CYP, CYP27, CYP27A1, Cytochrome P 450C27/25, Cytochrome P-450C27/25, Cytochrome P450 27, Cytochrome P450 27 mitochondrial, Cytochrome P450 family 27 subfamily A member 1, Cytochrome P450 family 27 subfamily A polypeptide 1, Cytochrome P450 subfamily XXVIIA (steroid 27-hydroxylase cerebrotendinous xanthomatosis) polypeptide 1, mitochondrial, Sterol 26 hydroxylase, Sterol 26 hydroxylase mitochondrial, Sterol 26-hydroxylase, Sterol 27 hydroxylase, Sterol 27-hydroxylase, Vitamin D(3) 25 hydroxylase, Vitamin D(3) 25-hydroxylase. |
| Calculated MW     | Calculated MW: 60 kDa; Observed MW: 55 kDa  |
| Uniprot ID        | Q02318  |
| Gene ID           | 1593  |
| Background        | 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, Jul 2008]   |
| Cellular Location | Mitochondrion membrane.   |



Western Blot - Anti-CYP27A1 Rabbit mAb [20P62M93]

All lanes: R015047 at 1:1,000 dilution

Lane 1 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 2 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3 : Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

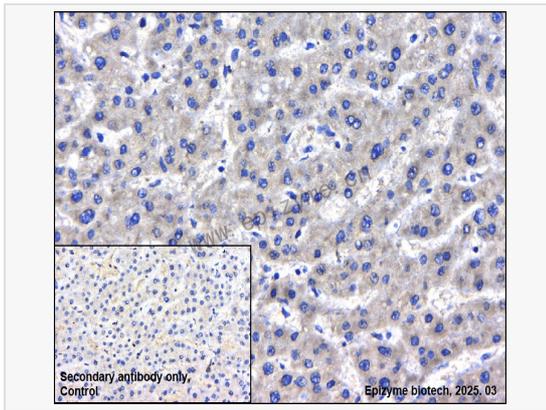
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 60 kDa

Observed band size: 50 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-CYP27A1 Rabbit mAb [20P62M93]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015047 at 1:200 dilution

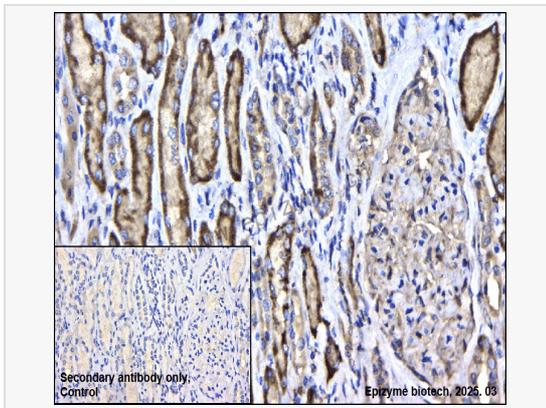
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CYP27A1 Rabbit mAb [20P62M93]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015047 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.