

Rabbit CYP27A1 Monoclonal Antibody | anti-CYP27A1 antibody

CYP27A1 Antibody

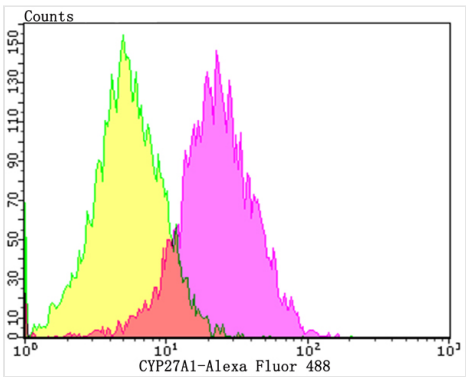
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30522	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

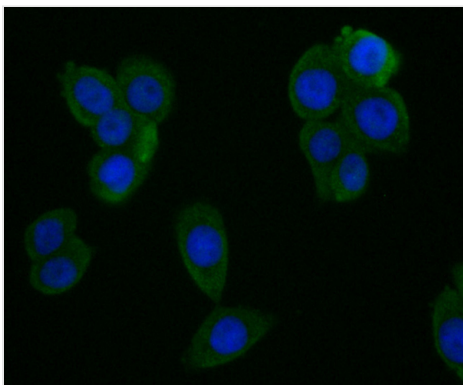
CYP27A1; Monoclonal Antibody; CYP27A1 Antibody; 12-alpha-triol 27-hydroxylase antibody; 5-beta-cholestane-3-alpha antibody; 5-beta-cholestane-3-alpha; 7-alpha; 12-alpha-triol 26-hydroxylase antibody; 7-alpha antibody; Cholestanetriol 26 monooxygenase antibody; CP27 antibody; CP27A_HUMAN antibody; CTX antibody; CYP antibody; CYP27 antibody; CYP27A1 antibody; Cytochrome P 450C27/25 antibody; Cytochrome P-450C27/25 antibody; Cytochrome P450 27 antibody; Cytochrome P450 27 mitochondrial antibody; Cytochrome P450 family 27 subfamily A member 1 antibody; Cytochrome P450 family 27 subfamily A polypeptide 1 antibody; Cytochrome P450 subfamily XXVIIA (steroid 27-hydroxylase cerebrotendinous xanthomatosis) polypeptide 1 antibody; mitochondrial antibody; Sterol 26 hydroxylase antibody; Sterol 26 hydroxylase mitochondrial antibody; Sterol 26-hydroxylase antibody; Sterol 27 hydroxylase antibody; Sterol 27-hydroxylase antibody; Vitamin D (3) 25 hydroxylase antibody; Vitamin D (3) 25-hydroxylase antibody; anti-CYP27A1 antibody

PRODUCT SPECIFICATIONS

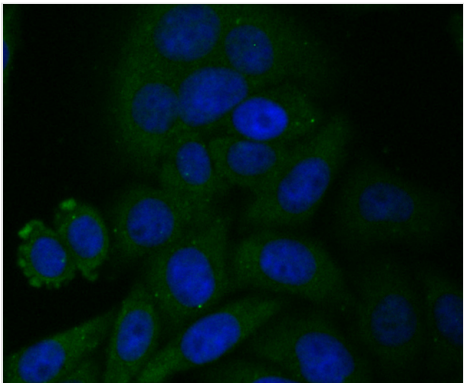
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JG40-36
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CYP27A1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein corresponding to human CYP27A1 300-500aa.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.



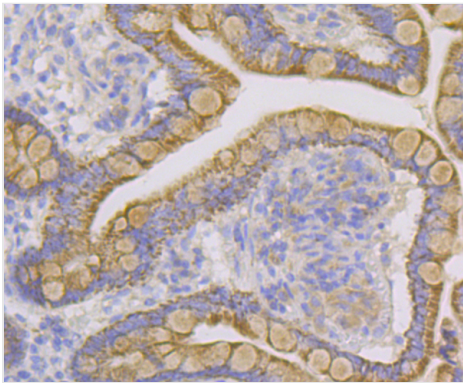
FCM (Flow Cytometry)
Flow cytometric analysis of HepG2 cells with CYP27A1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



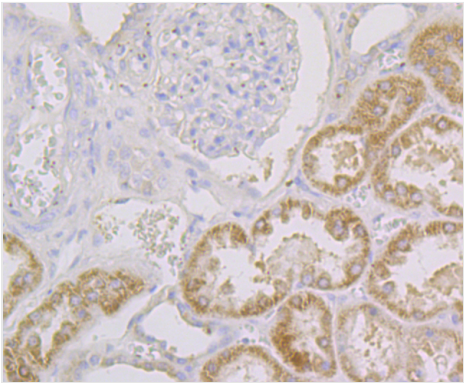
ICC (Immunocytochemistry)
ICC staining CYP27A1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



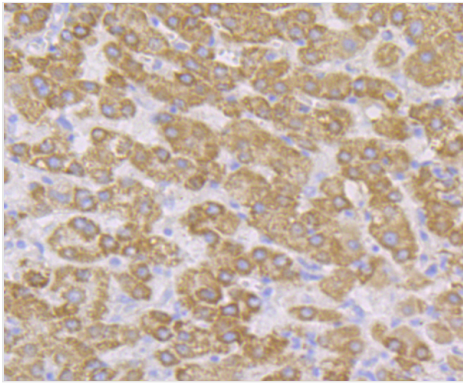
ICC (Immunocytochemistry)
ICC staining CYP27A1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human small intestine tissue using anti-CYP27A1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-CYP27A1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-CYP27A1 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP27A1 antibody	P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endo-genous and xenobiotic compounds. P450 enzymes can be classified, based on their sequence similarities, into distinct subfamilies, which include CYP1A and CYP2A. Other P450 family members include CYP19, also designated aromatase (P450arom), which catalyzes the conversion of C19 steroids to estrogens in various tissues, including placenta, gonads, adipose tissue, skin and brain. CYP19 expression is controlled by hormonally regulated promoters in different tissues and increased aromatase activity is associated with familial gynecomastia. Also, a polymorphic allele of CYP19 (repeat (TTTA) ₁₂) is present in a majority of breast cancer patients. P450 cholesterol 7 α -hydroxylase, CYP7A1, is the rate limiting enzyme of bile acid synthesis in the liver, and its expression is mediated by the bile acid receptor FXR. CYP27A1 catalyzes vitamin D3 25-hydroxylation and is localized to the mitochondria in kidney and liver.
Product Categories/Family for anti-CYP27A1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503211
NCBI GeneID	1593
NCBI Accession #	NP_000775.1
NCBI GenBank Nucleotide #	NM_000784.3
UniProt Accession #	Q02318; Q6LDB4; Q86YQ6; A8K303
Molecular Weight	60,235 Da
NCBI Official Full Name	sterol 26-hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450, family 27, subfamily A, polypeptide 1
NCBI Official Symbol	CYP27A1
NCBI Official Synonym Symbols	CTX; CP27; CYP27
NCBI Protein Information	sterol 26-hydroxylase, mitochondrial; cytochrome P450 27; sterol 27-hydroxylase; cytochrome P-450C27/25; vitamin D(3) 25-hydroxylase; cholestanetriol 26-monooxygenase; 5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol 27-hydroxylase; 5-beta-cholestane-3-al
UniProt Protein Name	Sterol 26-hydroxylase, mitochondrial
UniProt Gene Name	CYP27A1
UniProt Synonym Gene Names	CYP27
UniProt Entry Name	CP27A_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/monoclonal/cyp27a1-antibody-clone-jg40-36-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/30522>