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Product datasheet for AP01374PU-M

CYP7B1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of CYP7B1 protein. (region surrounding Gln127)
Formulation:	PBS pH~7.2 with 0.05% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity-Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 58 kDa
Gene Name:	cytochrome P450 family 7 subfamily B member 1
Database Link:	Entrez Gene 9420 Human O75881

View online »

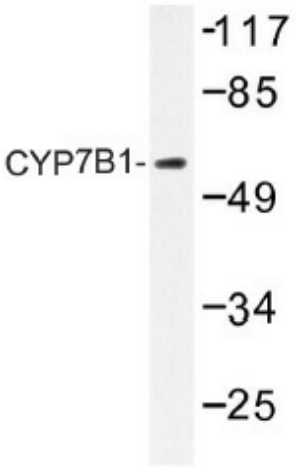
Background: P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endogenous and xenobiotic compounds including cholesterol. CYP8B1 moderates the ratio of cholic acid over chenodeoxycholic acid to control the solubility of cholesterol.
P450 cholesterol 7-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. CYP7B1 (oxysterol 7-α-hydroxylase) functions as an enzyme in the alternate bile acid synthesis pathway. Specifically, CYP7B1 metabolizes 25-and 27-hydroxycholesterol. The gene encoding human CYP7B1 maps to chromosome 8q21.3. Mutations in the CYP7B1 gene may cause a metabolic defect in bile acid synthesis characterized by elevated urinary bile acid excretion, severe cholestasis, cirrhosis and liver synthetic failure.

Synonyms: Cytochrome P450 7B1

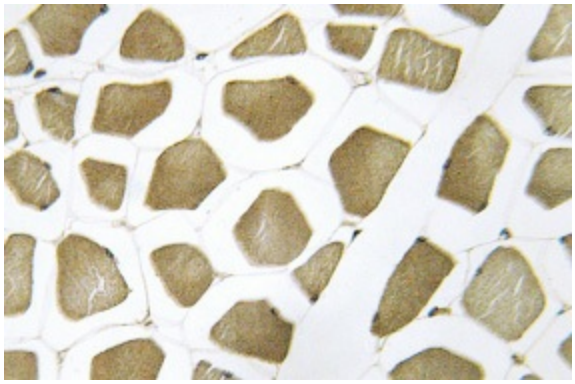
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Primary bile acid biosynthesis

Product images:



Western blot (WB) analysis of CYP7B1 antibody (Cat.-No.: [AP01374PU-N]) in extracts from LOVO cells.



Immunohistochemistry (IHC) analyzes of CYP7B1 antibody (Cat.-No.: [AP01374PU-N]) in paraffin-embedded human skeletal muscle tissue