

## Product datasheet for **AP20144PU-N**

### **CYP7B1 (C-term) Goat Polyclonal Antibody**

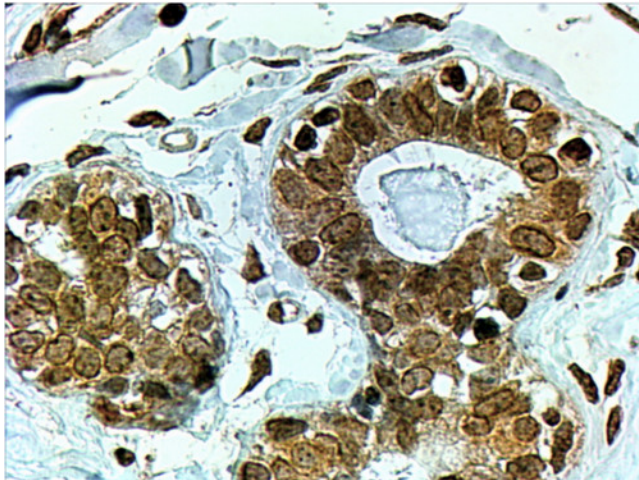
#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	<b>Peptide ELISA:</b> Detection Limit: 1/128000. <b>Western blot:</b> Preliminary experiments in Human Liver, Kidney and Prostate lysates gave no specific signal but low background (at antibody concentration up to 1µg/ml). <b>Immunohistochemistry on Paraffin Sections:</b> 3-6 µg/ml. In Paraffin Embedded Human Breast shows textured Cytoplasm staining in ductal epithelial cells.
Reactivity:	Bovine, Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-YPDSDVLFYKVKKS, from the C Terminus of the protein sequence according to NP_004811.1.
Specificity:	This antibody recognizes CYP7B1.
Formulation:	Tris saline, pH~7.3 State: Aff - Purified State: Liquid purified IgG fraction. Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store 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.
Gene Name:	cytochrome P450 family 7 subfamily B member 1
Database Link:	<a href="#">Entrez Gene 9420 Human O75881</a>



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- 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- $\alpha$ -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:**

Immunohistochemistry: CYP7B1 Antibody staining of Paraffin Embedded Human Breast at 4 ug/ml. Steamed antigen retrieval with citrate buffer pH 6, HRP-