

Product Name: KD-Validated CYP7B1 Mouse Monoclonal Antibody**Catalog #: KVA01163**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:200-1:1,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 58.3kDa

Antigen Information

Gene Name	CYP7B1
Alternative Names	CYP7B1; Cytochrome P450 Family 7 Subfamily B Member 1; Cytochrome P450, Subfamily VIIB (Oxysterol 7 Alpha-Hydroxylase), Polypeptide 1; 25/26-Hydroxycholesterol 7-Alpha-Hydroxylase; 24-Hydroxycholesterol 7-Alpha-Hydroxylase; 3-Hydroxysteroid 7-Alpha-Hydroxylase; Oxysterol 7-Alpha-Hydroxylase; Cytochrome P450 7B1; SPG5A; Cytochrome P450, Family 7, Subfamily B, Polypeptide 1; Spastic Paraplegia 5A (Autosomal Recessive); 25-Hydroxycholesterol 7-Alpha-Hydroxylase; EC 1.14.14.26; EC 1.14.14.29; CBAS3; CP7B
Gene ID	9420.0
SwissProt ID	O75881
Immunogen	Recombinant protein of human CYP7B1

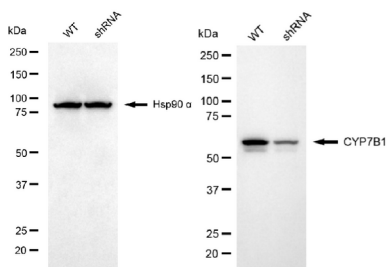
Background

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 endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. Mutations in this gene have been associated with hereditary spastic paraplegia (SPG5 or HSP), an autosomal recessive disorder. [provided by RefSeq, Apr 2016]

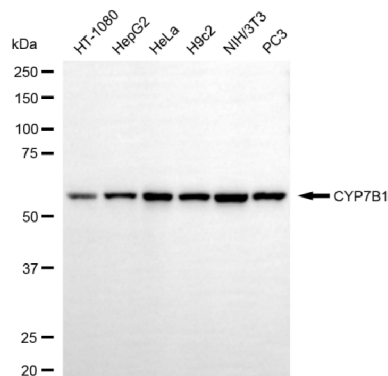
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism,Cardiovascular

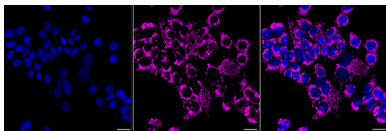
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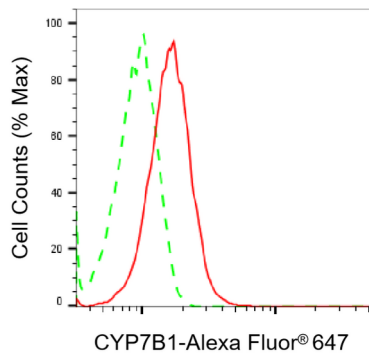
Western blotting analysis using CYP7B1 antibody (KVA01163). CYP7B1 expression in wild type (WT) and CYP7B1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CYP7B1 antibody (KVA01163, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using CYP7B1 antibody (KVA01163). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CYP7B1 antibody (KVA01163, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with CYP7B1 antibody (KVA01163, 1:1,000). Nuclei were stained blue with DAPI; CYP7B1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of CYP7B1 expression in HAP-1 cells using CYP7B1 antibody (KVA01163, 1:1,000). Green, isotype control; red, CYP7B1.