

Cytochrome P450 7A1 polyclonal antibody

Catalog: BS31186

Host: Rabbit

Reactivity: Human

BackGround:

Cytochrome P450 7A1: A cytochrome P450 monooxygenase involved in the metabolism of endogenous cholesterol and its oxygenated derivatives (oxysterols). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase). Functions as a critical regulatory enzyme of bile acid biosynthesis and cholesterol homeostasis. Catalyzes the hydroxylation of carbon hydrogen bond at 7- α position of cholesterol, a rate-limiting step in cholesterol catabolism and bile acid biosynthesis. 7- α hydroxylates several oxysterols, including 4 β -hydroxycholesterol and 24-hydroxycholesterol. Catalyzes the oxidation of the 7,8 double bond of 7-dehydrocholesterol and lathosterol with direct and predominant formation of the 7-keto derivatives.

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~57.7 kDa

Swiss-Prot:

P22680

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/2000)

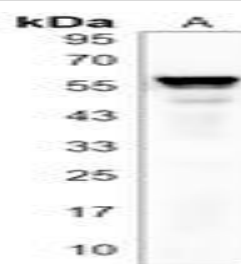
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of Cytochrome P450 7A1 protein

DATA:



Western blot analysis of OGT expression in THP1 (A), Jurkat (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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