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CYP3A43 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7999c

Product Information

Application	FC, IF, WB, E
Primary Accession	Q9HB55
Reactivity	Human
Predicted	Mouse, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16656
Calculated MW	57670
Antigen Region	242-270

Additional Information

Gene ID	64816
Other Names	Cytochrome P450 3A43, CYP3A43
Target/Specificity	This CYP3A43 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 242-270 amino acids from the Central region of human CYP3A43.
Dilution	FC~~1:10~50 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CYP3A43 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CYP3A43
Function	Exhibits low testosterone 6-beta-hydroxylase activity in vitro. The physiological substrate of this enzyme is unknown.

Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q02928}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q02928}. Microsome membrane {ECO:0000250|UniProtKB:Q02928}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q02928}
Tissue Location	Highest expression level in prostate. Also expressed in liver, kidney, pancreas, fetal liver and fetal skeletal muscle.

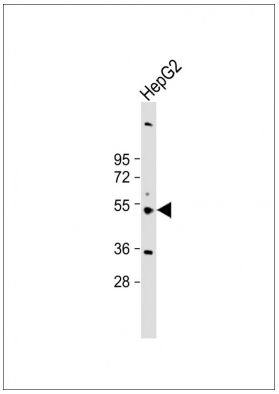
Background

CYP3A43 is 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 protein has a low level of testosterone hydroxylase activity. Although it bears homology to some drug-metabolizing cytochrome P450s, the protein unknown whether the enzyme is also involved in xenobiotic metabolism.

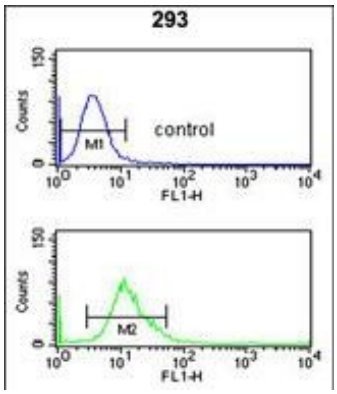
References

Domanski T.L., Finta C.Mol. Pharmacol. 59:386-392(2001)
Westlind A., Malmebo S.Biochem. Biophys. Res. Commun. 281:1349-1355(2001)
Cauffiez C., Lo-Guidice J.-M.Hum. Mutat. 23:101-101(2004)

Images

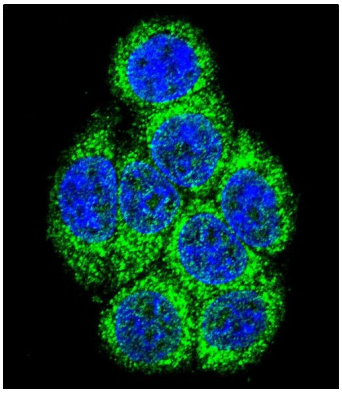


Anti-CYP3A43 Antibody (Center) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



CYP3A43 Antibody (Center) (Cat. #AP7999c) flow cytometry analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Confocal immunofluorescent analysis of CYP3A43 Antibody (Center)(Cat#AP7999c) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



Citations

- Functional expression and comparative characterization of four feline P450 cytochromes using fluorescent substrates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.