

CYP4X1 Rabbit pAb

Catalog # AP97657

Product Information

Application	IHC-P, IHC-F, IF
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CYP4X1
Epitope Specificity	221-320/525
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cytochrome P450 family.
SUBUNIT	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.
DISEASE	Bietti crystalline corneoretinal dystrophy (BCD) [MIM:210370]: An autosomal recessive ocular disease characterized by retinal degeneration and marginal corneal dystrophy. Typical features include multiple glistening intraretinal crystals scattered over the fundus, a characteristic degeneration of the retina, and sclerosis of the choroidal vessels, ultimately resulting in progressive night blindness and constriction of the visual field. Most patients have similar crystals at the corneoscleral limbus. Patients develop decreased vision, nyctalopia, and paracentral scotomata between the 2nd and 4th decade of life. Later, they develop peripheral visual field loss and marked visual impairment, usually progressing to legal blindness by the 5th or 6th decade of life. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the cytochrome P450 hemethiolate protein superfamily which are involved in oxidizing various substrates in the metabolic pathway. It is implicated in the metabolism of fatty acid precursors into n-3 polyunsaturated fatty acids. Mutations in this gene result in Bietti crystalline corneoretinal dystrophy. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	260293
Other Names	CYP4X1; cytochrome P450 family 4 subfamily X member 1; cytochrome P450, family 4, subfamily X, polypeptide 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	CYP4X1 Rabbit pAb
Function	CYP4X1 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. The expression pattern of a similar rat protein suggests that this protein may be involved in neurovascular function in the brain. Catalytic activity: $\text{RH} + \text{reduced flavoprotein} + \text{O}_2 = \text{ROH} + \text{oxidized flavoprotein} + \text{H}_2\text{O}$.

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