10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CYP4X1 Polyclonal Antibody

Catalog # AP69421

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q8N118
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58875

Additional Information

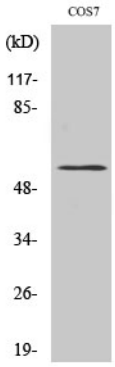
Gene ID	260293
Other Names	CYP4X1; Cytochrome P450 4X1; CYPIVX1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

Name	CYP4X1 {ECO:0000303|PubMed:18549450, ECO:0000312|HGNC:HGNC:20244}
Function	A cytochrome P450 monooxygenase that selectively catalyzes the epoxidation of the last double bond of the arachidonoyl moiety of anandamide, potentially modulating endocannabinoid signaling. Has no hydroxylase activity toward various fatty acids, steroids and prostaglandins. 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).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q6A152}; Single-pass membrane protein. Microsome membrane {ECO:0000250|UniProtKB:Q6A152}; Single-pass membrane protein
Tissue Location	Expressed in brain, heart, kidney and skin and, at lower levels, in skeletal muscle and liver (PubMed:16478468, PubMed:18549450). In the brain, high levels are detected in amygdala and lower levels in globus pallidus and

cerebellum (PubMed:18549450) In the heart, very high levels in aorta, but very low levels in other heart regions (PubMed:16478468, PubMed:18549450). Also expressed in breast, prostate and colon (PubMed:18549450)

Images



Western Blot analysis of various cells using CYP4X1 Polyclonal Antibody

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