

CYP4X1 Polyclonal Antibody

Catalog # AP69421

Specification

CYP4X1 Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession Q8N118

Reactivity Human, Monkey

Host Rabbit Clonality Polyclonal

CYP4X1 Polyclonal Antibody - Additional Information

Gene ID 260293

Other Names

CYP4X1; Cytochrome P450 4X1; CYPIVX1

Dilution

WB $\sim\sim$ Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CYP4X1 Polyclonal Antibody - 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



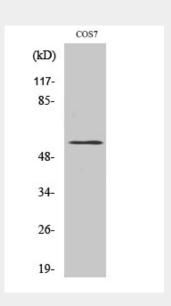
lower levels in globus pallidus and cerebellum (PubMed:18549450) In the heart, very high levels in aorta, but very low levels in other heart regions (PubMed:16478468, PubMed:18549450). Also expressed in breast, prostate and colon (PubMed:18549450)

CYP4X1 Polyclonal Antibody - Protocols

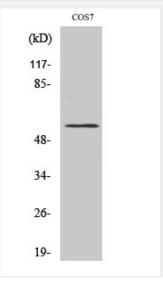
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CYP4X1 Polyclonal Antibody - Images



Western Blot analysis of various cells using CYP4X1 Polyclonal Antibody







Western Blot analysis of various cells using CYP4X1 Polyclonal Antibody