

Cytochrome P450 4X1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51152**Specification**

Cytochrome P450 4X1 Antibody - Product Information

Application	WB
Primary Accession	Q8N118
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59 KDa
Antigen Region	231 - 290

Cytochrome P450 4X1 Antibody - Additional Information**Gene ID** 260293**Other Names**

Cytochrome P450 4X1, CYP4X1, CYP4X1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cytochrome P450 4X1. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Cytochrome P450 4X1 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

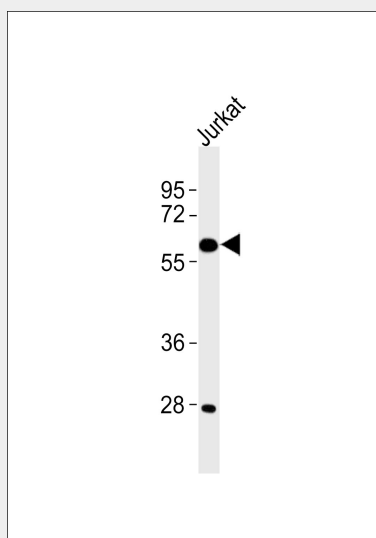
Expressed in brain, heart, kidney and skin and, at lower levels, in skeletal muscle and liver (PubMed:16478468, PubMed:18549450). In the brain, high levels are detected in amygdala and lower levels in globus pallidus and cerebellum (PubMed:18549450) In the heart, very high levels in aorta, but very low levels in other heart regions (PubMed:16478468, PubMed:18549450). Also expressed in breast, prostate and colon (PubMed:18549450)

Cytochrome P450 4X1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Cytochrome P450 4X1 Antibody - Images



Anti-Cytochrome P450 4X1 Antibody at 1:1000 dilution + Jurkat whole cell lysates
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
at 1/10000 dilution Predicted band size : 59,58,51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Cytochrome P450 4X1 Antibody - References

Al-Anizy M., et al. FEBS J. 273:936-947(2006).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Gregory S.G., et al. Nature 441:315-321(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.