

Cytochrome P450 2U1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51148**Specification**

Cytochrome P450 2U1 Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	Q7Z449
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62 KDa

Cytochrome P450 2U1 Antibody - Additional Information**Gene ID** 113612**Other Names**

Cytochrome P450 2U1, CYP2U1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cytochrome P450 2U1. The exact sequence is proprietary.

Dilution

WB~~1:1000

ICC~~N/A

IHC-P~~N/A

E~~N/A

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 2U1 Antibody - Protein Information**Name** CYP2U1 {ECO:0000303|PubMed:14660610, ECO:0000312|HGNC:HGNC:20582}**Function**

A cytochrome P450 monooxygenase involved in the metabolism of arachidonic acid and its conjugates (PubMed:14660610, PubMed:24563460). 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) (PubMed:14660610, PubMed:24563460).

href="http://www.uniprot.org/citations/24563460" target="_blank">24563460). Acts as an omega and omega-1 hydroxylase for arachidonic acid and possibly for other long chain fatty acids. May modulate the arachidonic acid signaling pathway and play a role in other fatty acid signaling processes (PubMed:14660610, PubMed:24563460). May down-regulate the biological activities of N-arachidonoyl-serotonin, an endocannabinoid that has anti-nociceptive effects through inhibition of fatty acid amide hydrolase FAAH, TRPV1 receptor and T-type calcium channels. Catalyzes C-2 oxidation of the indole ring of N-arachidonoyl-serotonin forming a less active product 2-oxo-N-arachidonoyl-serotonin (PubMed:24563460).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi-pass membrane protein. Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Widely expressed with stronger expression in thymus, heart and cerebellum.

Cytochrome P450 2U1 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 2U1 Antibody - Images

Cytochrome P450 2U1 Antibody - Background

Catalyzes the hydroxylation of arachidonic acid, docosahexaenoic acid and other long chain fatty acids. May modulate the arachidonic acid signaling pathway and play a role in other fatty acid signaling processes.

Cytochrome P450 2U1 Antibody - References

Chuang S.S.,et al.J. Biol. Chem. 279:6305-6314(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Karlgren M.,et al.Biochem. Biophys. Res. Commun. 315:679-685(2004).
Choudhary D.,et al.Arch. Biochem. Biophys. 436:50-61(2005).
Tesson C.,et al.Am. J. Hum. Genet. 91:1051-1064(2012).