

CYP2U1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14742**Specification****CYP2U1 antibody - middle region - Product Information**

Application	WB
Primary Accession	Q7Z449
Other Accession	NM_183075 , NP_898898
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Sheep, Horse, Bovine, Dog
Predicted Host	Human, Rat, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 60kDa KDa

CYP2U1 antibody - middle region - Additional Information**Gene ID** 113612**Alias Symbol** **P450TEC**
Other Names
Cytochrome P450 2U1, 1.14.14.1, CYP2U1**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CYP2U1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CYP2U1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

CYP2U1 antibody - middle region - 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). 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](http://www.uniprot.org/citations/14660610), PubMed: [24563460](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

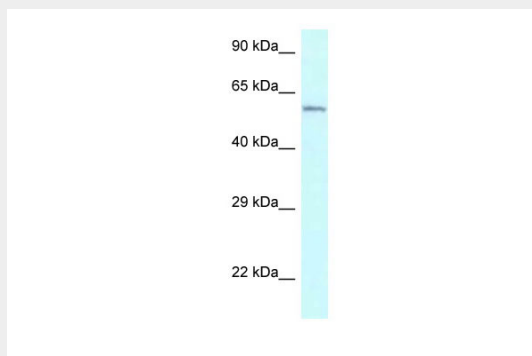
Widely expressed with stronger expression in thymus, heart and cerebellum.

CYP2U1 antibody - middle region - 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](#)

CYP2U1 antibody - middle region - Images



WB Suggested Anti-CYP2U1 Antibody Titration: 1.0 µg/ml

Positive Control: Jurkat Whole Cell

CYP2U1 antibody - middle region - 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.
Karlgrén 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).

