

# CYP2U1 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14742

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q7Z449</a>
<b>Other Accession</b>	<a href="#">NM_183075</a> , <a href="#">NP_898898</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Goat, Dog, Horse, Bovine, Sheep
<b>Predicted</b>	Human, Rat, Dog
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	61987

## Additional Information

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<b>Gene ID</b>	113612
<b>Alias Symbol</b>	P450TEC
<b>Other Names</b>	Cytochrome P450 2U1, 1.14.14.1, CYP2U1
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	CYP2U1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CYP2U1 {ECO:0000303 PubMed:14660610, ECO:0000312 HGNC:HGNC:20582}
<b>Function</b>	A cytochrome P450 monooxygenase involved in the metabolism of arachidonic acid and its conjugates (PubMed: <a href="#">14660610</a> , PubMed: <a href="#">24563460</a> ). 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: <a href="#">14660610</a> , PubMed: <a href="#">24563460</a> ). 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: <a href="#">14660610</a> , PubMed: <a href="#">24563460</a> ). 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.

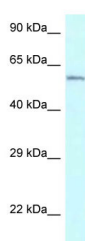
## References

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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).

## Images

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WB Suggested Anti-CYP2U1 Antibody Titration: 1.0 µg/ml  
Positive Control: Jurkat Whole Cell

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