

# CYP2U1 Polyclonal Antibody

Catalog # AP69407

## Product Information

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q7Z449</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61987

## Additional Information

Gene ID	113612
Other Names	CYP2U1; Cytochrome P450 2U1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	CYP2U1 {ECO:0000303   PubMed:14660610, ECO:0000312   HGNC:HGNC:20582}
Function	<p>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:<a href="#">24563460</a>).</p>

<b>Cellular Location</b>	Endoplasmic reticulum membrane; Multi-pass membrane protein. Microsome membrane; Multi- pass membrane protein. Mitochondrion inner membrane; Multi-pass membrane protein
<b>Tissue Location</b>	Widely expressed with stronger expression in thymus, heart and cerebellum.

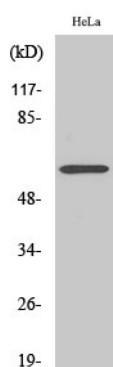
## Background

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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.

## Images

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Western Blot analysis of various cells using CYP2U1 Polyclonal Antibody

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