

**CYP2U1 Antibody (aa281-330)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16633****Specification**

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**CYP2U1 Antibody (aa281-330) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, WB                |
| Primary Accession | <a href="#">Q7Z449</a> |
| Other Accession   | <a href="#">113612</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | IgG                    |
| Calculated MW     | 61987                  |

**CYP2U1 Antibody (aa281-330) - Additional Information****Gene ID** 113612**Other Names**

CYP2U1, p450TEC, SPG49, Cytochrome P450 2U1

**Target/Specificity**

Cytochrome P450 2U1 Antibody detects endogenous levels of total Cytochrome P450 2U1 protein.

**Reconstitution & Storage**PBS (without Mg<sup>2+</sup>, Ca<sup>2+</sup>), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.  
Store at -20°C for up to one year.**Precautions**

CYP2U1 Antibody (aa281-330) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYP2U1 Antibody (aa281-330) - 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:<a href="http://www.uniprot.org/citations/14660610" target="\_blank">14660610</a>, PubMed:<a href="http://www.uniprot.org/citations/24563460" target="\_blank">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="http://www.uniprot.org/citations/14660610" target="\_blank">14660610</a>, PubMed:<a href="http://www.uniprot.org/citations/24563460" target="\_blank">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="http://www.uniprot.org/citations/14660610" target="\_blank">14660610</a>, PubMed:<a href="http://www.uniprot.org/citations/24563460" target="\_blank">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="http://www.uniprot.org/citations/24563460" target="\_blank">24563460</a>).

#### **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.

#### **Volume**

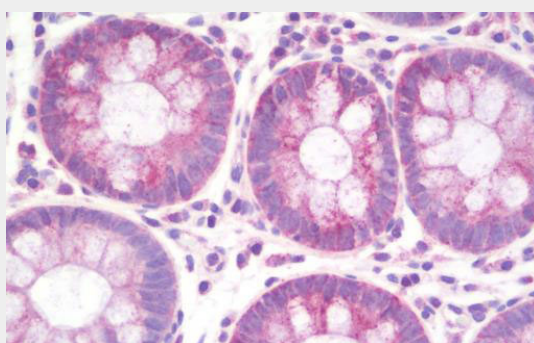
50 µl

### **CYP2U1 Antibody (aa281-330) - Protocols**

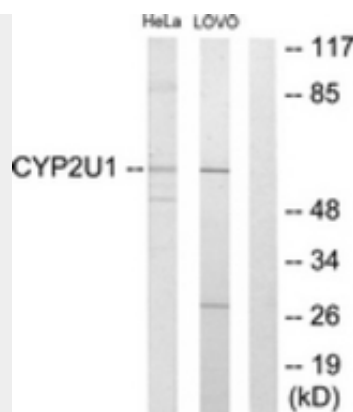
Provided below are standard protocols that you may find useful for product applications.

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

### **CYP2U1 Antibody (aa281-330) - Images**



Anti-CYP2U1 antibody IHC staining of human colon.



Western blot of extracts from HeLa/Lovo cells, using Cytochrome P450 2U1 Antibody.

#### **CYP2U1 Antibody (aa281-330) - 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.

#### **CYP2U1 Antibody (aa281-330) - 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).