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CYP2U1 Antibody (aa281-330)

Rabbit Polyclonal Antibody
Catalog # ALS16633

Specification

CYP2U1 Antibody (aa281-330) - Product Information

Application	**IHC, WB**
Primary Accession	Q7Z449
Other Accession	113612
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 Mg2+, Ca2+), 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: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, 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.

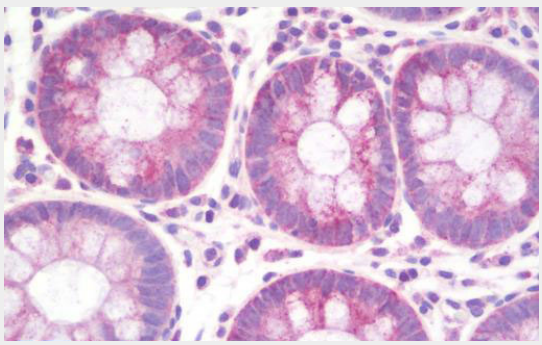
Volume
50 µl

CYP2U1 Antibody (aa281-330) - Protocols

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

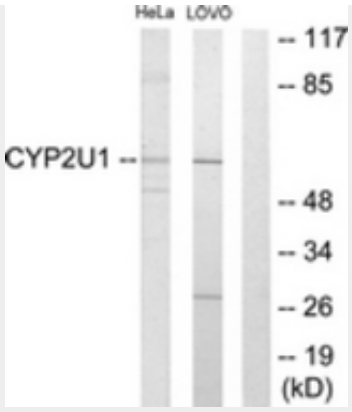
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP2U1 Antibody (aa281-330) - Images



Anti-CYP2U1 antibody IHC staining of human colon.

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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).