10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	**Human, Rat, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**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, 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

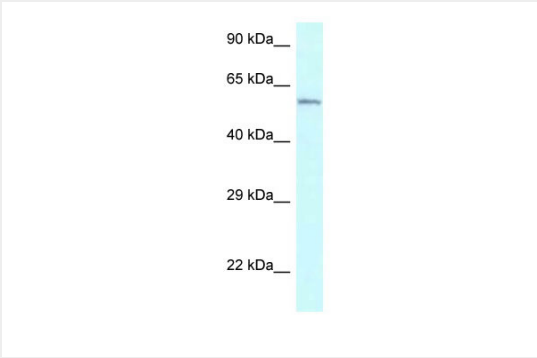
Tissue Location
Widely expressed with stronger expression in thymus, heart and cerebellum.

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 Cytomety
- 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.
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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999