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Cyp4x1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13848

Product Information

Application	WB
Primary Accession	Q6A152
Other Accession	NM_001003947, NP_001003947
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58557

Additional Information

Gene ID	81906
Alias Symbol	A230025G20, CYP_a, Cyp4a28-ps
Other Names	Cytochrome P450 4X1, 1.14.14.1, CYPIVX1, Cyp4x1
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-Cyp4x1 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	Cyp4x1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

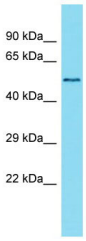
Name	Cyp4x1 {ECO:0000303|PubMed:16478468, ECO:0000312|MGI:MGI:1932403}
Function	A cytochrome P450 monooxygenase that selectively catalyzes the epoxidation of the last double bond of the arachidonoyl moiety of anandamide, potentially modulating endocannabinoid signaling. Has no hydroxylase activity toward various fatty acids, steroids and prostaglandins. 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).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Microsome membrane; Single-pass membrane protein

Tissue Location	Expressed in brain and aorta. In the brain, expressed in the Purkinje cells of the cerebellum, pyramidal neurons in the dentate gyrus of the hippocampus, cortical forebrain neurons and those of brain stem nuclei (at protein level). In addition to neurons, also expressed in cerebral vascular endothelial cells (at protein level). Also expressed in epithelial cells of the choroid plexus (at protein level). Hardly detectable in heart, lung, kidney and spleen

References

Al-Anizy M.,et al.FEBS J. 273:936-947(2006).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Carninci P.,et al.Science 309:1559-1563(2005).

Images



Host: Rabbit
Target Name: Cyp4x1
Sample Tissue: Mouse Thymus lysates
Antibody Dilution: 1.0µg/ml

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