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Anti-CYP4Z1 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17415

Product Information

Application	WB, IHC-P
Primary Accession	Q86W10
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59086
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	199974
Alias Symbol	CYP4Z1
Other Names	CYP4Z1, Cytochrome P450 4Z1, CYP4A20, CYPIVZ1
Target/Specificity	Recognizes endogenous levels of Cytochrome P450 4Z1/2 protein.
Reconstitution & Storage	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.
Precautions	Anti-CYP4Z1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CYP4Z1 {ECO:0000303|PubMed:19090726, ECO:0000312|HGNC:HGNC:20583}
Function	A cytochrome P450 monooxygenase that catalyzes the in-chain oxidation of fatty acids (PubMed:19090726, PubMed:29018033). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates lauric and myristic acids predominantly at the omega-4 and omega-2 positions, respectively (PubMed:19090726, PubMed:29018033). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA). Displays an absolute stereoselectivity in the epoxidation of arachidonic acid producing the 14(S),15(R)-epoxyeicosatrienoic acid (EET) enantiomer (PubMed:29018033). 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:19090726, PubMed:29018033).

Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein. Microsome membrane; Single-pass type II membrane protein
Tissue Location	Preferentially detected in breast carcinoma tissue and mammary gland, whereas only marginal expression is found in all other tested tissues.

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