

Anti-CYP4Z1 Antibody (Internal)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17415**Specification**

Anti-CYP4Z1 Antibody (Internal) - Product Information

Application	WB, IHC-P
Primary Accession	Q86W10
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59086

Anti-CYP4Z1 Antibody (Internal) - Additional Information**Gene ID** 199974**Alias Symbol** **CYP4Z1**
Other Names
CYP4Z1, Cytochrome P450 4Z1, CYP4A20, CYP4Z1**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.

Anti-CYP4Z1 Antibody (Internal) - 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.

Anti-CYP4Z1 Antibody (Internal) - 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](#)

Anti-CYP4Z1 Antibody (Internal) - Images