

**CYP4Z1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7886A****Specification**

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**CYP4Z1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q86W10</a>
Other Accession	<a href="#">Q8N1L4</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59086
Antigen Region	89-118

**CYP4Z1 Antibody (N-term) - Additional Information****Gene ID** 199974**Other Names**

Cytochrome P450 4Z1, CYP4Z1, CYP4Z1

**Target/Specificity**

This CYP4Z1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-118 amino acids from the N-terminal region of human CYP4Z1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CYP4Z1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYP4Z1 Antibody (N-term) - 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

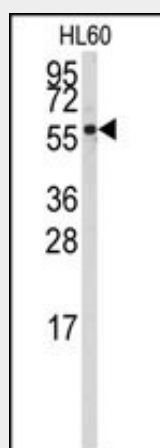
Preferentially detected in breast carcinoma tissue and mammary gland, whereas only marginal expression is found in all other tested tissues.

### CYP4Z1 Antibody (N-term) - 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](#)

### CYP4Z1 Antibody (N-term) - Images



Western blot analysis of anti-CYP4Z1 Antibody (N-term)(Cat.#AP7886a) in HL60 cell line lysates (35ug/lane).CYP4Z1(arrow) was detected using the purified Pab.

### CYP4Z1 Antibody (N-term) - Background

CYP4Z1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.

**CYP4Z1 Antibody (N-term) - References**

Savas,U., Arch. Biochem. Biophys. 436 (2), 377-385 (2005)

Rieger,M.A., Cancer Res. 64 (7), 2357-2364 (2004)

**CYP4Z1 Antibody (N-term) - Citations**

- [The 3'UTR of the pseudogene CYP4Z2P promotes tumor angiogenesis in breast cancer by acting as a ceRNA for CYP4Z1.](#)