

# **CYPIVF8 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55444

## **Product Information**

**Application** WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Host
Clonality
Calculated MW
P98187
Human
Rabbit
Polyclonal
59995

# **Additional Information**

**Gene ID** 11283

Other Names Cytochrome P450 4F8, 1.14.14.1, CYPIVF8, CYP4F8

{ECO:0000303|PubMed:10791960, ECO:0000312|HGNC:HGNC:2648}

**Dilution** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

0,ELISA=1:5000-10000

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

### **Protein Information**

Name CYP4F8 {ECO:0000303 | PubMed:10791960, ECO:0000312 | HGNC:2648}

**Function** A cytochrome P450 monooxygenase involved in the metabolism of

endogenous polyunsaturated fatty acids (PUFAs) and their oxygenated derivatives (oxylipins). 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). Catalyzes the hydroxylation of carbon hydrogen bonds, with preference for omega-1 and omega-2 positions (PubMed:10791960, PubMed:15789615, PubMed:16112640). Hydroxylates (5Z,8Z,11Z,14Z)-eicosatetraenoic acid (arachidonate) predominantly at omega-2 position to form (18R)- hydroxyeicosatetraenoic acid (18R-HETE) (PubMed:10791960). Exhibits omega-1 hydroxylase activity toward

prostaglandin (PG) H1, PGH2 and PGI2 (PubMed:10791960,

PubMed: 15789615). Catalyzes the epoxidation of double bonds of PUFAs, including docosahexaenoic and docosapentaenoic acids (PubMed: 16112640). Shows little activity against PGD2, PGE1, PGE2, PGF2alpha, and leukotriene B4.

**Cellular Location** Endoplasmic reticulum membrane {ECO:0000250 | UniProtKB:Q9HBI6};

Single-pass membrane protein {ECO:0000250 | UniProtKB:Q9HBI6}. Microsome membrane {ECO:0000250 | UniProtKB:Q9HBI6}; Single-pass membrane protein {ECO:0000250 | UniProtKB:Q9HBI6}

#### **Tissue Location**

Expressed in the epithelium of seminal vesicles, in renal cortex, in adult and fetal liver, in epidermis, in corneal epithelium, in sweat glands, hair follicles, epithelial linings of the ampulla of vas deferens and of the stomach and small intestine, as well as in the transitional epithelium of the bladder and ureter (at protein level). In the epidermis, expressed from the basal cell to the granular cell layers. In the corneal epithelium, expressed in all cell layers Also detected in prostate. Up-regulated in the epidermis of psoriatic lesions.

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