

CP4F8 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14578

Product Information

Application	WB
Primary Accession	P98187
Reactivity	Human
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59995

Additional Information

Gene ID	11283
Alias Symbol Other Names	CYP4F8, Cytochrome P450 4F8, 1.14.14.1, CYP4F8
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 μ l of distilled water. Final Anti-CP4F8 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	CP4F8 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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

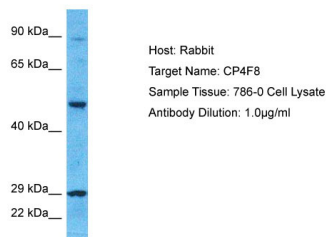
Tissue Location

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.

References

Bylund J.,et al.Biochem. Biophys. Res. Commun. 261:169-174(1999).
Bylund J.,et al.J. Biol. Chem. 275:21844-21849(2000).
Stark K.,et al.Arch. Biochem. Biophys. 409:188-196(2003).
Stark K.,et al.Arch. Biochem. Biophys. 441:174-181(2005).
Stark K.,et al.Prostaglandins Other Lipid Mediat. 75:47-64(2005).

Images



Host: Rabbit
Target Name: CP4F8
Sample Tissue: 786-0 Cell Lysate
Antibody Dilution: 1.0µg/ml

Host: Rabbit
Target Name: CP4F8
Sample Tissue: 786-0 Whole Cell lysates
Antibody Dilution: 1.0µg/ml

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