

**Anti-Cytochrome P450 4V2 Antibody**  
**Catalog # AP53990****Specification**

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**Anti-Cytochrome P450 4V2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q6ZWL3</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60724

**Anti-Cytochrome P450 4V2 Antibody - Additional Information****Gene ID** 285440**Other Names**

Cytochrome P450 4V2

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cytochrome P450 4V2. The exact sequence is proprietary.

**Dilution**

WB~~1/500 - 1/1000

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-Cytochrome P450 4V2 Antibody - Protein Information****Name** CYP4V2**Function**

A cytochrome P450 monooxygenase involved in fatty acid metabolism in the eye. Catalyzes the omega-hydroxylation of polyunsaturated fatty acids (PUFAs) docosahexaenoate (DHA) and its precursor eicosapentaenoate (EPA), and may contribute to the homeostasis of these retinal PUFAs (PubMed: <a href="http://www.uniprot.org/citations/22772592" target="\_blank">22772592</a>). Omega hydroxylates saturated fatty acids such as laurate, myristate and palmitate, the catalytic efficiency decreasing in the following order: myristate > laurate > palmitate (C14>C12>C16) (PubMed: <a href="http://www.uniprot.org/citations/19661213" target="\_blank">19661213</a>). 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).

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass membrane protein

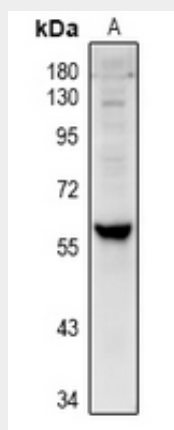
**Tissue Location**

Broadly expressed. Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, retina, retinal pigment epithelium (RPE) and lymphocytes

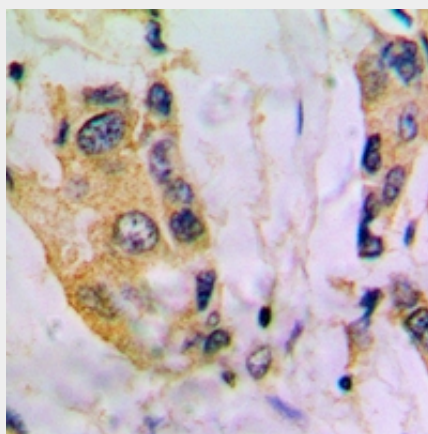
**Anti-Cytochrome P450 4V2 Antibody - Protocols**

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-Cytochrome P450 4V2 Antibody - Images**

Western blot analysis of Cytochrome P450 4V2 expression in U87MG (A) whole cell lysates.



Immunohistochemical analysis of Cytochrome P450 4V2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Anti-Cytochrome P450 4V2 Antibody - Background**

Rabbit polyclonal antibody to Cytochrome P450 4V2