

**Anti-PPAR Alpha Antibody**  
**Catalog # ABO10734****Specification**

---

**Anti-PPAR Alpha Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P23204</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Peroxisome proliferator-activated receptor alpha(PPARA) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PPAR Alpha Antibody - Additional Information**

**Gene ID** 19013

**Other Names**

Peroxisome proliferator-activated receptor alpha, PPAR-alpha, Nuclear receptor subfamily 1 group C member 1, Ppara, Nr1c1, Ppar

**Calculated MW**

52347 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat  
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, Mouse, Rat  
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

**Subcellular Localization**

Nucleus .

**Tissue Specificity**

Highly expressed in liver, kidney and heart. Very weakly expressed in brain and testis.

**Protein Name**

Peroxisome proliferator-activated receptor alpha(PPAR-alpha)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of mouse PPAR

alpha(393-412aa NIGYIEKLQEGIVHVLKLHL), different from the human sequence by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the nuclear hormone receptor family. NR1 subfamily.

**Anti-PPAR Alpha Antibody - Protein Information****Name** Ppara**Synonyms** Nr1c1, Ppar**Function**

Ligand-activated transcription factor. Key regulator of lipid metabolism. Activated by the endogenous ligand 1-palmitoyl-2-oleoyl-sn- glycerol-3-phosphocholine (16:0/18:1-GPC). Activated by oleylethanolamide, a naturally occurring lipid that regulates satiety. Receptor for peroxisome proliferators such as hypolipidemic drugs and fatty acids. Regulates the peroxisomal beta-oxidation pathway of fatty acids. Functions as a transcription activator for the ACOX1 and P450 genes. Transactivation activity requires heterodimerization with RXRA and is antagonized by NR2C2. May be required for the propagation of clock information to metabolic pathways regulated by PER2.

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:20159955}

**Tissue Location**

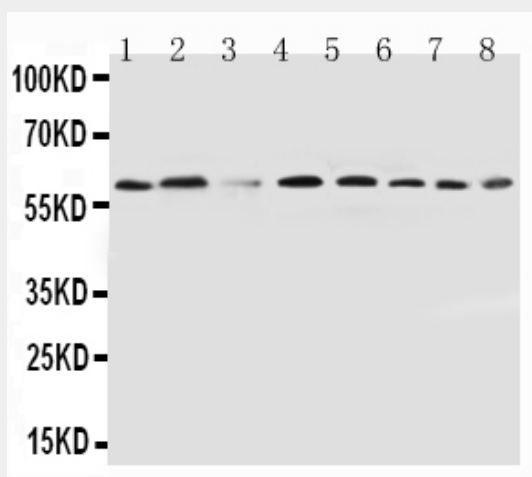
Highly expressed in liver, kidney and heart. Very weakly expressed in brain and testis

**Anti-PPAR Alpha Antibody - Protocols**

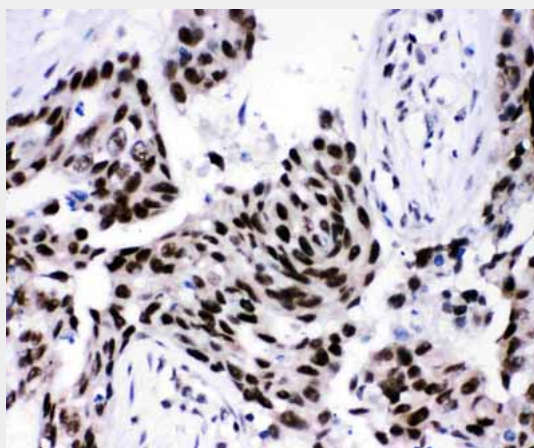
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

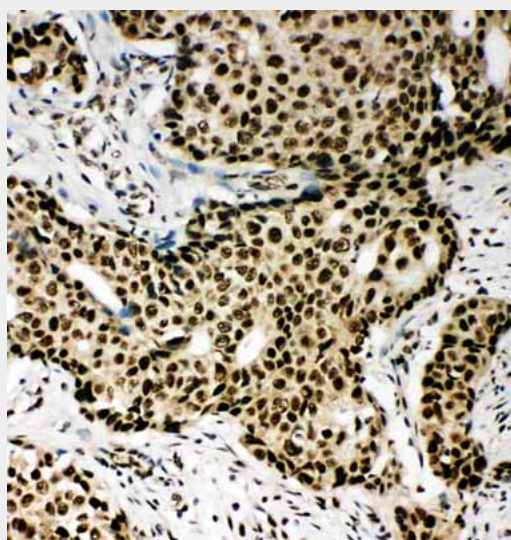
**Anti-PPAR Alpha Antibody - Images**



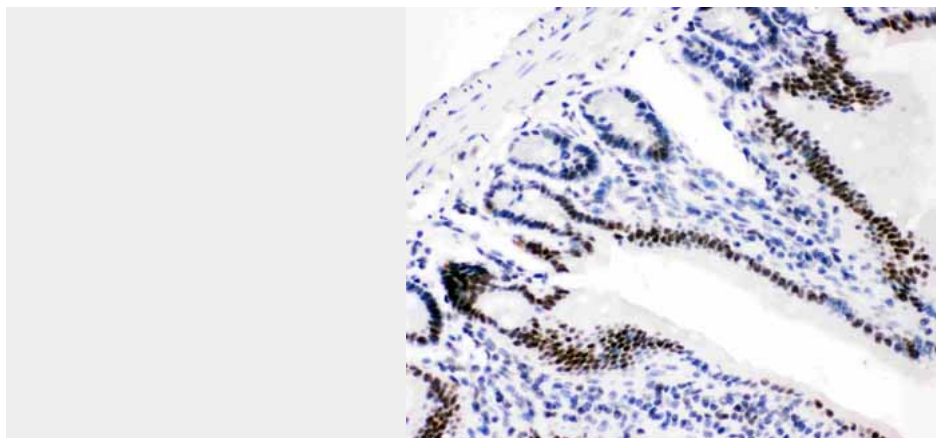
Anti-PPAR alpha antibody, ABO10734, Western blotting  
Lane 1: Rat Liver Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate  
Lane 3: Rat Cardiac Muscle Tissue Lysate  
Lane 4: MM231 Cell Lysate  
Lane 5: HELA Cell Lysate  
Lane 6: SMMC Cell Lysate  
Lane 7: HT1080 Cell Lysate  
Lane 8: SW620 Cell Lysate



Anti-PPAR alpha antibody, ABO10734, IHC(P)  
IHC(P): Human Mammary Cancer Tissue



Anti-PPAR alpha antibody, ABO10734, IHC(P)  
IHC(P): Human Mammary Cancer Tissue



Anti-PPAR alpha antibody, ABO10734, IHC(P)IHC(P): Mouse Intestine Tissue

#### **Anti-PPAR Alpha Antibody - Background**

Peroxisome proliferator-activated receptor alpha (PPAR-alpha), also known as NR1C1 (nuclear receptor subfamily 1, group C, member 1), is a nuclear receptor protein that in humans is encoded by the PPARA gene. PPARA gene spans 83.7 kb and contains 8 exons. And the PPAR gene is mapped to chromosome 22q12-q13.1. Sher et al. (1993) cloned a cDNA for human peroxisome proliferator-activated receptor from a human liver cDNA library. The PPAR cDNA exhibited 85% and 91% DNA and deduced amino acid sequence identity, respectively, with mouse PPAR. PPAR-alpha is a transcription factor and a major regulator of lipid metabolism in the liver.