



Rabbit Anti-phospho-PPAR alpha

SL4055R-FITC

Product Name:	Anti-phospho-PPAR alpha (Ser12)/FITC
Chinese Name:	FITC标记的磷酸化 α 型-过氧化酶活化增生受体抗体
Alias:	PPAR alpha (phospho-Ser12); PPAR alpha (phospho-S12); p-PPAR alpha (Ser12); p-PPAR alpha (S12); hPPAR; MGC2237; MGC2452; NR1C1; Nuclear receptor subfamily 1 group C member 1; Peroxisome Proliferator Activated Receptor alpha; PPAR; PPAR alpha; PPARA; OTTHUMP00000197740; OTTHUMP00000197741; Peroxisome proliferator-activated receptor alpha; PPAR-alpha; PPARA_HUMAN; PPARalpha.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Guinea Pig,
Applications:	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PPAR alpha around the phosphorylation site of ser12
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
Product Detail:	background: Peroxisome proliferators are nongenotoxic carcinogens which are purported to exert their effect on cells through their interaction with members of the nuclear hormone

receptor family, termed Peroxisome Proliferator Activated Receptors (PPARs). Nuclear hormone receptors are ligand dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate ligand. Studies indicate that PPARs are activated by peroxisome proliferators such as clofibric acid, nafenopin, and WY-14,643, as well as by some fatty acids. It has also been shown that PPARs can induce transcription of acyl coenzyme A oxidase and cytochrome P450 A6 (CYP450 A6) through interaction with specific response elements. PPAR alpha is activated by free fatty acids including linoleic, arachidonic, and oleic acids. Induction of peroxisomes by this mechanism leads to a reduction in blood triglyceride levels. PPAR alpha is expressed mainly in skeletal muscle, heart, liver, and kidney and is thought to regulate many genes involved in the beta-oxidation of fatty acids. Activation of rat liver PPAR alpha has been shown to suppress hepatocyte apoptosis. PPAR alpha, like several other nuclear hormone receptors, heterodimerizes with retinoic X receptor (RXR) alpha to form a transcriptionally competent complex.

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 (By similarity). Receptor for peroxisome proliferators such as hypolipidemic drugs and fatty acids. Regulates the peroxisomal beta-oxidation pathway of fatty acids. Functions as transcription activator for the ACOX1 and P450 genes. Transactivation activity requires heterodimerization with RXRA and is antagonized by NR2C2.

Subunit:

Heterodimer; with RXRA. This heterodimerization is required for DNA binding and transactivation activity. Interacts with AKAP13, LPIN1 and PRDM16. Also interacts with PPARBP coactivator in vitro. Interacts with CITED2; the interaction stimulates its transcriptional activity (By similarity). Interacts with NCOA3 and NCOA6 coactivators. Interacts with ASXL1 AND ASXL2.

Subcellular Location:

Nucleus.

Tissue Specificity:

Skeletal muscle, liver, heart and kidney.

Similarity:

Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.

Database links:

[Entrez Gene: 5465](#) Human

[Entrez Gene: 19013](#) Mouse

[Entrez Gene: 25747](#) Rat

[Omin: 170998](#) Human

[SwissProt: Q07869](#) Human

[SwissProt: Q6I9S0](#) Human

[SwissProt: P23204](#) Mouse

[SwissProt: Q542P9](#) Mouse

[SwissProt: P37230](#) Rat

[Unigene: 103110](#) Human

[Unigene: 710044](#) Human

[Unigene: 212789](#) Mouse

[Unigene: 9753](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.