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PPAR alpha Mouse mAb

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Catalog # AP94596

Specification

PPAR alpha Mouse mAb - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC**
Primary Accession	Q6I9S0
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Monoclonal**
Calculated MW	**51 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human PPAR alpha**
Isotype	**IgG1**
Purity	
affinity purified by Protein G	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Nucleus.**
SIMILARITY	**Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.**
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. Interacts with NCOA3 and NCOA6 coactivators. Interacts with ASXL1 AND ASXL2.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions

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.

PPAR alpha Mouse mAb - Additional Information

Target/Specificity
Skeletal muscle, liver, heart and kidney.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A

Storage
Store at -20 ℃ 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 ℃.

PPAR alpha Mouse mAb - Protein Information

PPAR alpha Mouse mAb - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPAR alpha Mouse mAb - Images

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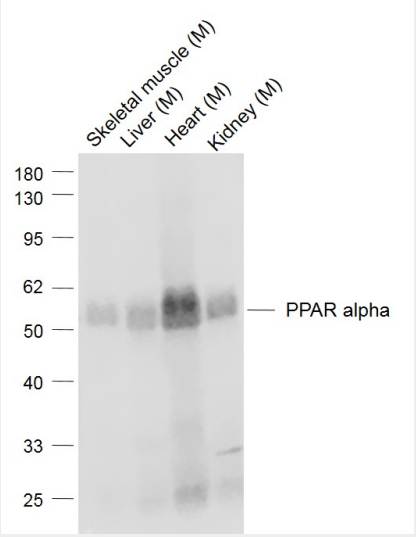
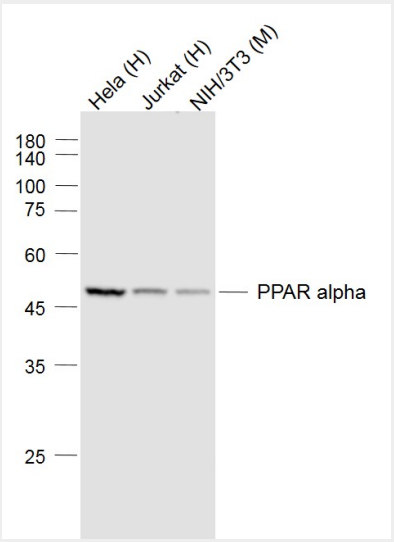


Sample: Lane 1: Skeletal muscle (Mouse) Lysate at 40 ug Lane 2: Liver (Mouse) Lysate at 40 ug Lane 3: Heart (Mouse) Lysate at 40 ug Lane 4: Kidney (Mouse) Lysate at 40 ug Primary: Anti-PPAR alpha (AP94596) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD



Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: Jurkat (Human) Cell Lysate at 30 ug Lane 3: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-PPAR alpha (AP94596) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD

PPAR alpha Mouse mAb - Background

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