Anti-PPARA Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M014541

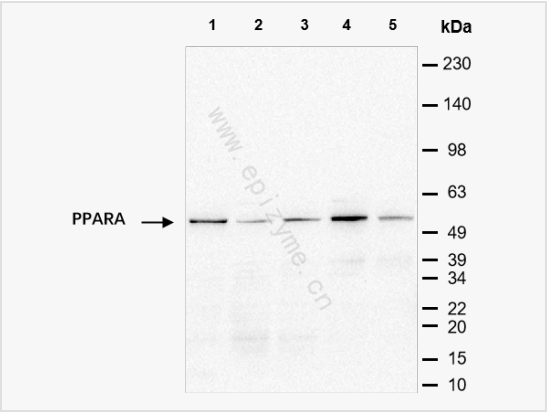
Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Mouse (Cell)
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	19I97G56
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human PPARA
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PPARA Mouse mAb [19I97G56] is for research use only and not for use in diagnostic or therapeutic procedures.

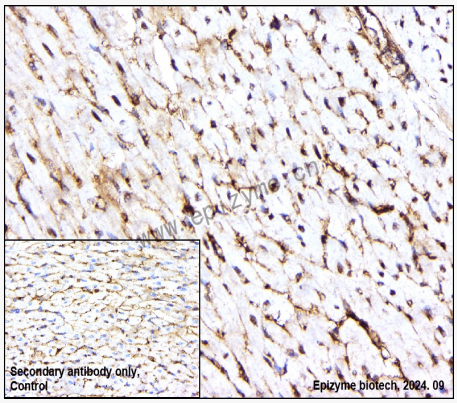
Protein Information

Synonyms	hPPAR, MGC2237, MGC2452, NR1C1, Nuclear receptor subfamily 1 group C member 1, OTTHUMP00000197740, OTTHUMP00000197741, Peroxisome proliferative activated receptor alpha, Peroxisome proliferator activated receptor alpha, Peroxisome proliferator-activated receptor alpha, PPAR, PPAR-alpha, ppara, PPARA_HUMAN, PPARalpha.
Calculated MW	Calculated MW: 52 kDa; Observed MW: 52 kDa
Uniprot ID	Q07869
Gene ID	5465
Background	Peroxisome proliferators include hypolipidemic drugs, herbicides, leukotriene antagonists, and plasticizers; this term arises because they induce an increase in the size and number of peroxisomes. Peroxisomes are subcellular organelles found in plants and animals that contain enzymes for respiration and for cholesterol and lipid metabolism. The action of peroxisome proliferators is thought to be mediated via specific receptors, called PPARs, which belong to the steroid hormone receptor superfamily. PPARs affect the expression of target genes involved in cell proliferation, cell differentiation and in immune and inflammation responses. Three closely related subtypes (alpha, beta/delta, and gamma) have been identified. This gene encodes the subtype PPAR-alpha, which is a nuclear transcription factor. Multiple alternatively spliced transcript variants have been described for this gene, although the full-length nature of only two has been determined. [provided by RefSeq, Jul 2008].
Cellular Location	Nucleus.
Tissue Location	Skeletal muscle, liver, heart and kidney.

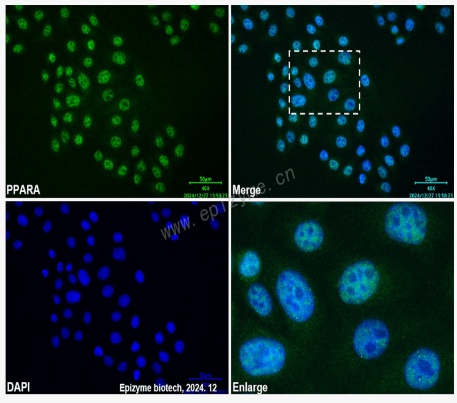
Validation Images



Western Blot - Anti-PPARA Mouse mAb [19I97G56]
All lanes: M014541 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 3: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 4: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 52 kDa
Observed band size: 52 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PPARA Mouse mAb [19I97G56]
Sample: Paraformaldehyde-fixed, paraffin embedded rat heart tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: M014541 at 1:200 dilution
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-PPARA Mouse mAb [19I97G56]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibody: M014541 at 1:100 dilution
Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).