bsm-51405M **[Primary Antibody]**

PPAR alpha Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 7G5
GeneID: 5465
SWISS: Q07869
Target: PPAR alpha
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

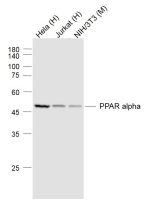
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
ICC/IF (1:50-200)

Reactivity: Human, Mouse

Predicted MW.: 51 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



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 (bsm-51405M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD

SELECTED CITATIONS

- **[IF=4.225]** Wang Wei. et al. PPARα Ameliorates Doxorubicin-Induced Cardiotoxicity by Reducing Mitochondria-Dependent Apoptosis via Regulating MEOX1. Front Pharmacol. 2020 Oct;11:1605 IF ;Mouse. 33132907