

## Anti-Phospho-PPAR alpha/PPARA alpha (Ser12) Polyclonal Antibody

### Product Details

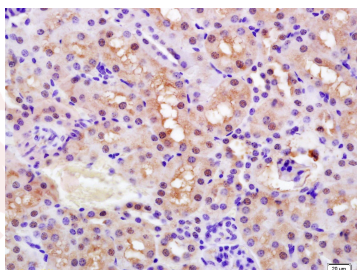
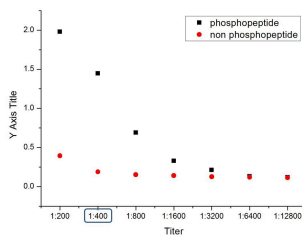
Ig Type: IgG  
 Reactivity: Human, Mouse, Rat, Rabbit (predicted: Dog, Pig, Cow, Horse, Guinea Pig)  
 Molecular Weight: Theoretical: 52 kDa. Actual: 50 kDa.  
 Purification: Protein A purified

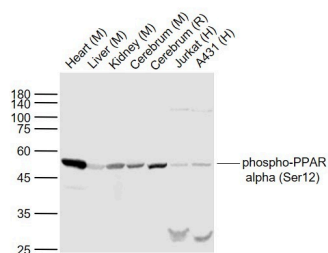
### Applications

1. phosphopeptide  
 non phosphopeptide  
 2. Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
 Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;  
 Incubation: Anti-phospho-PPAR alpha (Ser12) Polyclonal Antibody, Unconjugated (TMAB-01483) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

### 3. Sample:

Verified Activity: Lane 1: Heart (Mouse) Lysate at 40 µg  
 Lane 2: Liver (Mouse) Lysate at 40 µg  
 Lane 3: Kidney (Mouse) Lysate at 40 µg  
 Lane 4: Cerebrum (Mouse) Lysate at 40 µg  
 Lane 5: Cerebrum (Rat) Lysate at 40 µg  
 Lane 6: Jurkat (Human) Cell Lysate at 30 µg  
 Lane 7: A431 (Human) Cell Lysate at 30 µg  
 Primary: Anti-phospho-PPAR alpha (Ser12) (TMAB-01483) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 53 kDa  
 Observed band size: 50 kDa





Application: ELISA,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthesised phosphopeptide: human PPAR alpha around the phosphorylation site of ser12

Antigen Species: Human

Gene ID: 5465

Uniprot ID: Q07869

Synonyms: PPAR alpha/PPARA alpha (p-S12);peroxisome proliferator-activated receptor alpha; peroxisome proliferator-activated receptor  $\alpha$ ;p-PPAR alpha/PPARA alpha (Ser12); 4933429D07Rik;PPAR $\alpha$ ;Nr1c1;AW742785;PPAR-alpha;PPAR alpha/PPARA alpha (p-Ser12); PPARalpha;Ppar;p-PPAR alpha/PPARA alpha (S12);PPAR- $\alpha$

Biology Area: Metabolism of lipids and lipoproteins,Response to hypoxia,Nuclear hormone receptors, Metabolism,Zinc Finger,Fatty acids,Lipid metabolism,Mitochondrial transcription,Hypoxia, Mitochondrial Biogenesis,Fatty acid oxidation,Obesity

### Research 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481