

Rabbit PPAR alpha Polyclonal Antibody | anti-PPARalpha antibody

Phospho-PPAR alpha (Ser12) Antibody

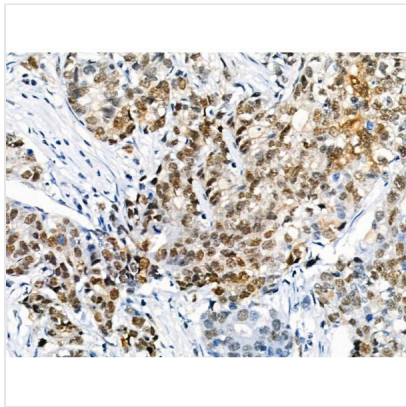
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31448	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (83%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

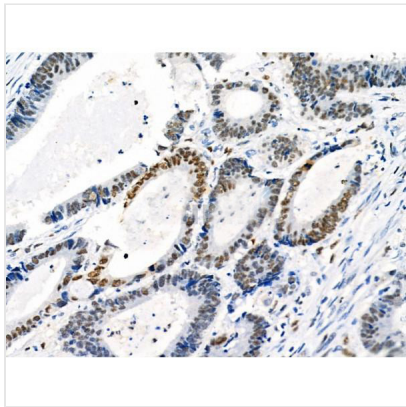
PPAR alpha; Polyclonal Antibody; Phospho-PPAR alpha (Ser12) Antibody; hPPAR; MGC2237; MGC2452; NR1C1; Nuclear receptor subfamily 1 group C member 1; OTTHUMP00000197740; OTTHUMP00000197741; Peroxisome proliferative activated receptor alpha; Peroxisome proliferator activated receptor alpha; Peroxisome proliferator-activated receptor alpha; PPAR; PPAR-alpha; ppara; PPARG_HUMAN; PPARalpha; anti-PPARalpha antibody

PRODUCT SPECIFICATIONS

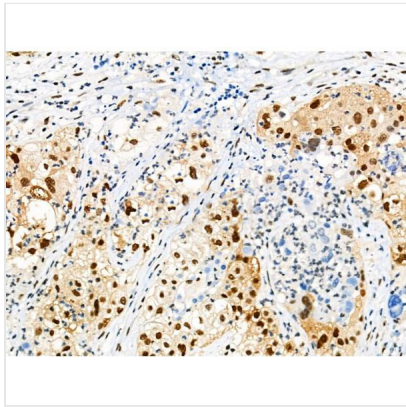
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (83%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PPAR alpha (Ser12) Antibody detects endogenous levels of PPAR alpha only when phosphorylated at Ser12. Tissue Specificity: Skeletal muscle, liver, heart and kidney. Expressed in monocytes.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PPARalpha antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human PPAR alpha around the phosphorylation site of Ser12.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Heterodimer; with RXRA. This heterodimerization is required for DNA binding and transactivation activity. Interacts with NCOA3 coactivator. Interacts with CITED2; the interaction stimulates its transcriptional activity. Also interacts with PPARBP in vitro. Interacts with AKAP13, LPIN1, PRDM16 and coactivator NCOA6. Interacts with ASXL1 and ASXL2. Interacts with PER2. Interacts with SIRT1; the interaction seems to be modulated by NAD (+) levels. Interacts with CRY1 and CRY2 (By similarity).
Similarity	Belongs to the nuclear hormone receptor family. NR1 subfamily.
Subcellular Location	Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



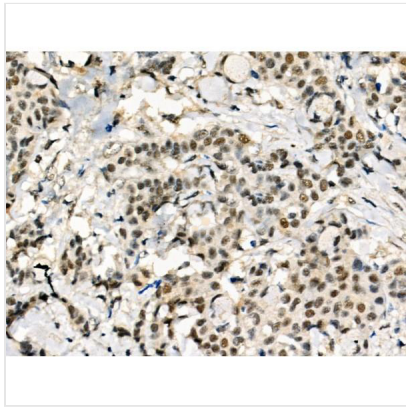
IHC (Immunohistochemistry)
At 1/100 staining Human gastric cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



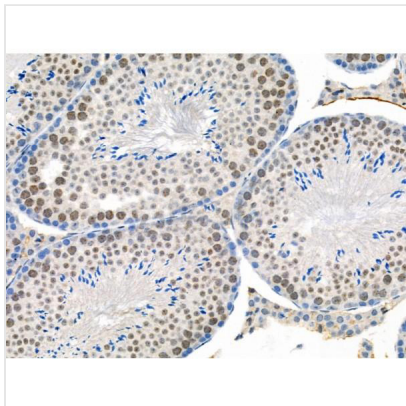
IHC (Immunohistochemistry)
At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



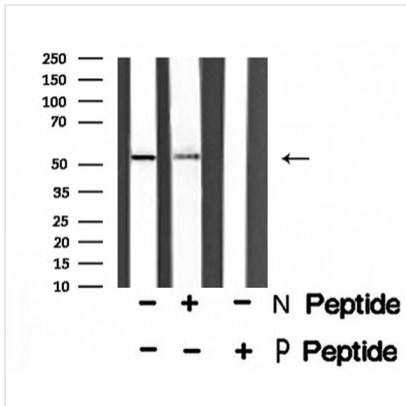
IHC (Immunohistochemistry)
At 1/100 staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Human mammary cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of PPARA (Phospho-Ser12) using UV treated COS7 whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-PPARalpha antibody	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. 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. May be required for the propagation of clock information to metabolic pathways regulated by PER2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50348666
NCBI GeneID	5465
NCBI Accession #	NP_001001928.1
NCBI GenBank Nucleotide #	NM_001001928.2
UniProt Accession #	Q07869; Q16241; Q6I9S0; Q92486; Q92689; Q9Y3N1
Molecular Weight	52,225 Da
NCBI Official Full Name	peroxisome proliferator-activated receptor alpha
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor alpha
NCBI Official Symbol	PPARA
NCBI Official Synonym Symbols	PPAR; NR1C1; hPPAR; PPARalpha
NCBI Protein Information	peroxisome proliferator-activated receptor alpha; PPAR-alpha; nuclear receptor subfamily 1 group C member 1; peroxisome proliferative activated receptor, alpha; peroxisome proliferator-activated nuclear receptor alpha variant 3
UniProt Protein Name	Peroxisome proliferator-activated receptor alpha
UniProt Gene Name	PPARA
UniProt Synonym Gene Names	NR1C1; PPAR; PPAR-alpha
UniProt Entry Name	PPARA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppar-alpha-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31448>