abcam

Product datasheet

Anti-PPAR alpha (phospho S12) antibody ab3484

*** * * * 4 Abreviews 26 References 6 Images

Overview

Product name Anti-PPAR alpha (phospho S12) antibody

Description Rabbit polyclonal to PPAR alpha (phospho S12)

Host species Rabbit

Specificity The antibody is expected to bind both phospho and non phospho forms.

Tested applications Suitable for: WB, ICC/IF

Species reactivity Reacts with: Mouse, Human

Predicted to work with: Guinea pig, Dog

Immunogen Synthetic peptide corresponding to Mouse PPAR alpha aa 1-100 (phospho S12).

Database link: P23204

Run BLAST with
Run BLAST with

Positive control WB: human U-87, MCF7, MDA-MB-231, C2C12, HepG2, and mouse NIH-3T3 ICC/IF: C2C12,

3T3-L1, U-87 MG cells

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

Storage buffer Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 99% PBS

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab3484 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes	
WB	★★★★ <u>(2)</u>	1/100 - 1/1000. Predicted molecular weight: 52 kDa.	
ICC/IF	★★★★☆(1)	1/100 - 1/500.	

Target

		4.5	
Ηı	ın	CTI	on

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 (By similarity). 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.

Tissue specificity

Skeletal muscle, liver, heart and kidney.

Sequence similarities

Belongs to the nuclear hormone receptor family. NR1 subfamily.

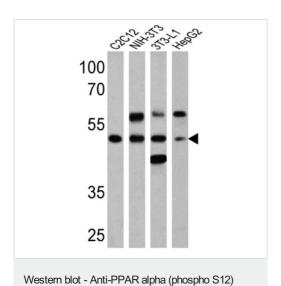
Contains 1 nuclear receptor DNA-binding domain.

Cellular localization

antibody (ab3484)

Nucleus.

Images



All lanes : Anti-PPAR alpha (phospho S12) antibody (ab3484) at

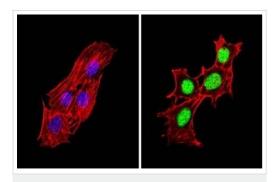
1/200 dilution

Lane 1 : C2C12 cell lysate
Lane 2 : NIH-3T3 cell lysate
Lane 3 : 3T3-L1 cell lysate
Lane 4 : HepG2 cell lysate

Lysates/proteins at 25 µg per lane.

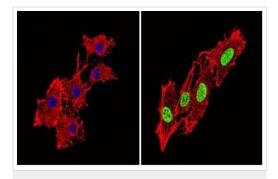
Predicted band size: 52 kDa **Observed band size:** 52 kDa

Observed band size: 52 kD



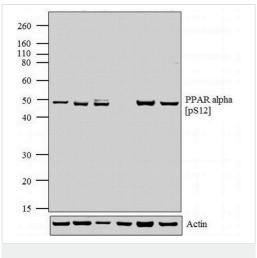
Immunocytochemistry/ Immunofluorescence - Anti-PPAR alpha (phospho S12) antibody (ab3484)

Immunofluorescent analysis of Phospho-PPAR alpha pSer12 (green) showing staining in the nucleus of C2C12 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Phospho-PPAR alpha pSer12 polyclonal antibody (ab3484) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Immunocytochemistry/ Immunofluorescence - Anti-PPAR alpha (phospho S12) antibody (ab3484)

Immunofluorescent analysis of Phospho-PPAR alpha pSer12 (green) showing staining in the nucleus of 3T3-L1 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Phospho-PPAR alpha pSer12 polyclonal antibody (ab3484) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Western blot - Anti-PPAR alpha (phospho S12) antibody (ab3484)

All lanes : Anti-PPAR alpha (phospho S12) antibody (ab3484) at 1/1000 dilution

Lane 1: U-87 MG with Skimmed milk

Lane 2: MCF7 with Skimmed milk

Lane 3: MDA-MB-231 with Skimmed milk

Lane 4 : C2C12 with Skimmed milk

Lane 5 : Hep G2 with Skimmed milk

Lane 6 : NIH/3T3 with Skimmed milk

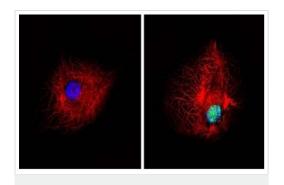
Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

Secondary

All lanes: Goat anti-rabbit lgG (H+L) at 1/2500 dilution

Predicted band size: 52 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PPAR alpha (phospho S12) antibody (ab3484)

Immunofluorescent analysis of Phospho-PPAR alpha pSer12 (green) showing staining in the nucleus of U-87 MG cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Phospho-PPAR alpha pSer12 polyclonal antibody (ab3484) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Immunocytochemistry/ Immunofluorescence - Anti-PPAR alpha (phospho S12) antibody (ab3484)

This image is courtesy of an anonymous Abreview

ab3484 staining PPAR alpha (phospho S12) in Mouse neuronal cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and blocked with 10% serum for 20 minutes at 25°C. Samples were incubated with primary antibody (1/100 in PBS) for 18 hours at 4°C. A Cy2[®]-conjugated Donkey anti-rabbit IgG polyclonal (1/100) was used as the secondary antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors