Phospho-PPAR alpha (Ser12) Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide corresponding to residues I(8) C P L (pS) P L E A D D L(19) of mouse PPAR alpha.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325817

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100-1:500	-
Immunofluorescence (IF)	1:100-1:500	-
Western Blot (WB)	1:100-1:1000	3 Publications
Gel Shift (GS)	-	1 Publication

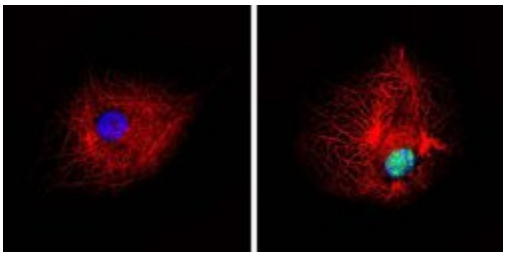
Product Specific Information

PA1-820 detects phospho-peroxisome proliferator activated receptor (PPAR) alpha S12 from mouse tissues.

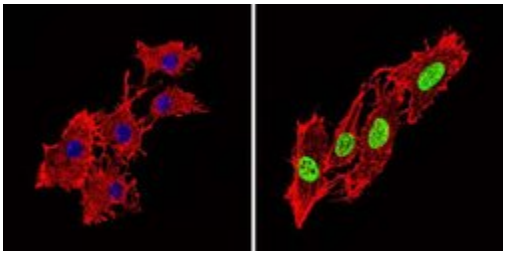
PA1-820 has been successfully used in Western blot procedures. By Western blot, this antibody detects a ~52 kDa protein which corresponds to phospho-PPAR alpha S12 from mouse adipose tissue extract.

The PA1-820 immunogen is a synthetic phosphopeptide corresponding to residues I(8) C P L (pS) P L E A D D L(19) of mouse PPAR alpha. This peptide (Cat. # PEP-181) is available for use in neutralization and control experiments.

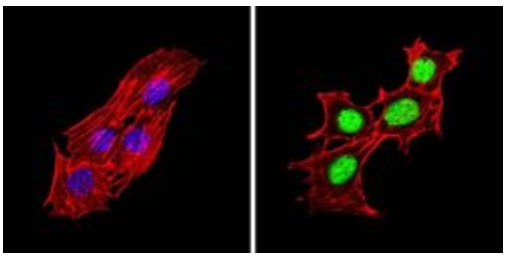
Product Images For Phospho-PPAR alpha (Ser12) Polyclonal Antibody



Phospho-PPAR alpha (Ser12) Antibody (PA1-820) in IF
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 (Product # PA1-820) 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.



Phospho-PPAR alpha (Ser12) Antibody (PA1-820) in IF
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 (Product # PA1-820) 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.



Phospho-PPAR alpha (Ser12) Antibody (PA1-820) in IF
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 (Product # PA1-820) 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.

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4 References

Western Blot (3)

Oncology letters

Downregulation of ROS1 enhances the therapeutic efficacy of arsenic trioxide in acute myeloid leukemia cell lines.

"PA1-820 was used in Western Blotting to investigate the function of ROS proto-oncogene 1 receptor tyrosine kinase in regulating the migration and proliferation of acute myeloid leukaemia cells through Wnt/-catenin signalling, and in arsenic trioxide treatment."

Authors: Li J

Species
Human

Dilution
1:200

Year
2018

PPAR research

AS601245, an Anti-Inflammatory JNK Inhibitor, and Clofibrate Have a Synergistic Effect in Inducing Cell Responses and in Affecting the Gene Expression Profile in CaCo-2 Colon Cancer Cells.

"PA1-820 was used in western blot to study the synergistic effects of a JNK kinase inhibitor and the PPARgamma ligand clofibrate on the gene expression profile of CaCo-2 colon cancer cells"

Authors: Cerbone A,Toaldo C,Pizzimenti S,Pettazzoni P,Dianzani C,Minelli R,Ciamporcero E,Roma G,Dianzani MU, Canaparo R,Ferretti C,Barrera G

Species
Human

Dilution
Not Cited

Year
2012

View more WB references on thermofisher.com

Gel Shift (1)

Molecular and cellular endocrinology

MCF-7 and T47D human breast cancer cells contain a functional peroxisomal response.

"PA1-820 was used in EMSA assay to characterize MCF-7 and T47D human breast cancer cells in terms of peroxisomal response"

Authors: Kilgore MW,Tate PL,Rai S,Sengoku E,Price TM

Species
Human

Dilution
Not Cited

Year
1997