

Datasheet for ABIN1387919
anti-PPARG antibody (pSer273)

2 Images

10 Publications

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Overview

Quantity:	100 µL
Target:	PPARG
Binding Specificity:	pSer273
Reactivity:	Human, Mouse, Rat, Sheep, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPARG antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human PPAR Gamma around the phosphorylation site of ser273
Isotype:	IgG
Cross-Reactivity:	Guinea Pig, Human, Mouse, Rat, Sheep
Predicted Reactivity:	Cow,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PPARG
Alternative Name:	PPAR Gamma (PPARG Products)
Background:	<p>Synonyms: GLM1, CIMT1, NR1C3, PPARG1, PPARG2, PPARGgamma, Peroxisome proliferator-activated receptor gamma, PPAR-gamma, Nuclear receptor subfamily 1 group C member 3, PPARG</p> <p>Background: Nuclear receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the nuclear receptor binds to DNA specific PPAR response elements (PPRE) and modulates the transcription of its target genes, such as acyl-CoA oxidase. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis. ARF6 acts as a key regulator of the tissue-specific adipocyte P2 (aP2) enhancer. Acts as a critical regulator of gut homeostasis by suppressing NF-kappa-B-mediated proinflammatory responses.</p>
Gene ID:	5468
UniProt:	P37231
Pathways:	MAPK Signaling , Nuclear Receptor Transcription Pathway , Steroid Hormone Mediated Signaling Pathway , Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , Regulation of Lipid Metabolism by PPARalpha , Positive Regulation of Endopeptidase Activity , Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Liu, Wan, Lang, Si, Zhu, Zhou, Mi: "Dihydromyricetin delays the onset of hyperglycemia and ameliorates insulin resistance without excessive weight gain in Zucker diabetic fatty rats." in: **Molecular and cellular endocrinology**, Vol. 439, pp. 105-115, (2018) ([PubMed](#)).

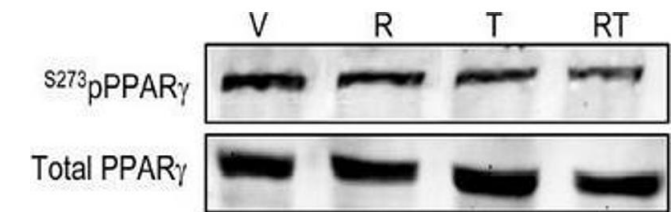
Liu, Zhou, Lang, Zhou, Mi: "Dihydromyricetin enhances glucose uptake by inhibition of MEK/ERK pathway and consequent down-regulation of phosphorylation of PPAR γ in 3T3-L1 cells." in: **Journal of cellular and molecular medicine**, Vol. 22, Issue 2, pp. 1247-1256, (2017) ([PubMed](#)).

Abd Alla, Graemer, Fu, Quitterer: "Inhibition of G-protein-coupled Receptor Kinase 2 Prevents the Dysfunctional Cardiac Substrate Metabolism in Fatty Acid Synthase Transgenic Mice." in: **The Journal of biological chemistry**, Vol. 291, Issue 6, pp. 2583-600, (2016) ([PubMed](#)).

Agrawal, Chanley, Westbrook, Nie, Kitao, Guess, Benndorf, Hidalgo, Smoyer: "Pioglitazone Enhances the Beneficial Effects of Glucocorticoids in Experimental Nephrotic Syndrome." in: **Scientific reports**, Vol. 6, pp. 24392, (2016) ([PubMed](#)).

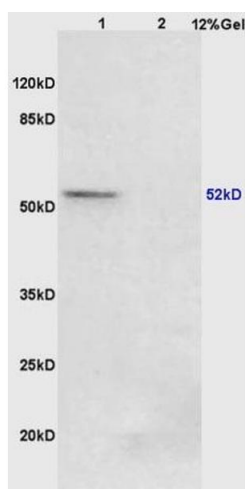
Maganti, Tersey, Syed, Nelson, Colvin, Maier, Mirmira: "Peroxisome Proliferator-activated Receptor- γ Activation Augments the β -Cell Unfolded Protein Response and Rescues Early Glycemic Deterioration and β Cell Death in Non-obese Diabetic Mice." in: **The Journal of biological chemistry**, Vol. 291, Issue 43, pp. 22524-22533, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Image kindly submitted by Dr. Leckaczernik from the University of Toledo. AD2 cells were treated for 60 min with either 1 mM ROSI or 50 mM TEL followed by isolation of proteins by incubating pelleted cells with the whole cell extract buffer (20 mM HEPES, 25% glycerol, 0.42 M NaCl, 0.2 mM EDTA, pH 7.4) supplemented with protease and phosphatase inhibitors for 10 min on ice. Protein samples were resolved by 10% SDS polyacrylamide gel electrophoresis and electrophoretically transferred to Immobilon-FL membranes. Membranes were blocked at room temperature for 1 h in containing 3% BSA plus phosphatase inhibitors followed by overnight incubation with primary antibody, Rabbit Anti-PPAR Gamma (ser273) Polyclonal Antibody, at 4uC. After three washes in TBST (TBS plus 0.1% Tween 20), membranes were incubated with infrared anti-rabbit (IRDye 800, green) or anti-mouse (IRDye 680, red) secondary antibodies (LI-COR Biosciences) at 1:15,000 dilution in TBS for 2 h at 4uC. Immunoreactivity was visualized and quantified by infrared scanning in the Odyssey system (LI-COR Biosciences) and band density was quantified using Image J software.



SDS-PAGE

Image 2. Lane 1: mouse lung lysates Lane 2: mouse stomach lysates probed with Anti Phospho-PPAR Gamma (ser273) Polyclonal Antibody, Unconjugated (ABIN734663) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90 min in 37 °C. Predicted band 52 kDa. Observed band size: 52 kDa.