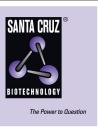
SANTA CRUZ BIOTECHNOLOGY, INC.

PPARγ (H-100): sc-7196



BACKGROUND

Peroxisome proliferator-activated receptors (PPARs) are members of the nuclear hormone receptor subfamily of transcription factors. PPARs form heterodimers with retinoid X receptors (RXRs). These heterodimers regulate transcription of genes involved in Insulin action, adipocyte differentiation, lipid metabolism and inflammation. PPAR_Y is implicated in numerous diseases including obesity, diabetes, atherosclerosis and cancer. PPAR_Y activators include prostanoids, fatty acids, thiazolidinediones and N-(2-benzoylphenyl) tyrosine analogues. A key component in adipocyte differentiation and fat-specific gene expression, PPAR_Y may modulate macrophage functions such as proinflammatory activities, and stimulate oxidized low-density lipoprotein (x-LDL) uptake. A Pro12Ala polymorphism of the PPAR_{Y2} gene has been reported to reduce transactivation activity *in vitro*. This substitution may affect the immune response to ox-LDL and be associated with type 2 diabetes. In addition, the Pro12Ala variant of the PPAR_{Y2} gene maybe correlated with abdominal obesity in type 2 diabetes.

CHROMOSOMAL LOCATION

Genetic locus: PPARG (human) mapping to 3p25.2; Pparg (mouse) mapping to 6 E3.

SOURCE

 PPAR_{γ} (H-100) is a rabbit polyclonal antibody raised against amino acids 8-106 of PPAR_{γ} of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-7196 AC, 500 µg/0.25 ml agarose in 1 ml; as HRP conjugate for Western blotting, sc-7196 HRP, 200 µg/1 ml; and as TransCruz reagent for Gel Supershift and ChIP applications, sc-7196 X, 200 µg/0.1 ml.

APPLICATIONS

PPAR γ (H-100) is recommended for detection of PPAR γ_1 and PPAR γ_2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PPARy (H-100) is also recommended for detection of PPARy1 and PPARy2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for PPARy siRNA (h): sc-29455, PPARy siRNA (m): sc-29456, PPARy shRNA Plasmid (h): sc-29455-SH, PPARy shRNA Plasmid (m): sc-29456-SH, PPARy shRNA (h) Lentiviral Particles: sc-29455-V and PPARy shRNA (m) Lentiviral Particles: sc-29456-V.

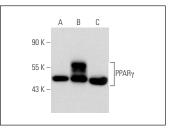
 $\ensuremath{\mathsf{PPAR}}\xspace\gamma$ (H-100) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

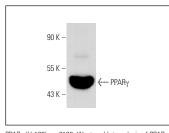
Molecular Weight of PPARy isoforms: 54/57 kDa.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA





PPARy (H-100): sc-7196. Western blot analysis of PPARy expression in non-transfected 293T: sc-117752 (**A**), human PPARy transfecSted 293T: sc-159760 (**B**) and THP-1 (**C**) whole cell lysates.

PPARy (H-100): sc-7196. Western blot analysis of PPARy expression in U-937 whole cell lysate.

SELECT PRODUCT CITATIONS

- 1. Clark, R.B., et al. 2000. The nuclear receptor PPARy and immunoregulation: PPARy mediates inhibition of helper T cell responses. J. Immunol. 164: 1364-1371.
- Matteucci, E., et al. 2012. Bone metastatic process of breast cancer involves methylation state affecting E-cadherin expression through TAZ and WWOX nuclear effectors. Eur. J. Cancer 49: 231-244.
- 3. Siersbak, M.S., et al. 2012. Genome-wide profiling of peroxisome proliferator-activated receptor γ in primary epididymal, inguinal, and brown adipocytes reveals depot-selective binding correlated with gene expression. Mol. Cell. Biol. 32: 3452-3463.
- 4. Alimirah, F., et al. 2012. Crosstalk between the peroxisome proliferatoractivated receptor γ (PPAR γ) and the vitamin D receptor (VDR) in human breast cancer cells: PPAR γ binds to VDR and inhibits 1 α ,25dihydroxyvitamin D_3 mediated transactivation. Exp. Cell Res. 318: 2490-2497.
- Rosmaninho-Salgado, J., et al. 2012. Intracellular mechanisms coupled to NPY Y2 and Y5 receptor activation and lipid accumulation in murine adipocytes. Neuropeptides 46: 359-366.
- Bagley, H.N., et al. 2013. Maternal docosahexaenoic acid increases adiponectin and normalizes IUGR-induced changes in rat adipose deposition. J. Obes. E-published.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS Satisfation Guaranteed

Try **PPAR**_Y (E-8): sc-7273 or **PPAR**_Y (B-5): sc-271392, our highly recommended monoclonal aternatives to PPAR_Y (H-100). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **PPAR**_Y (E-8): sc-7273.