PPARγ2 (A-1): sc-166731

BACKGROUND

Peroxisome proliferator-activated receptors (PPARs) are members of the nuclear hormone receptor subfamily of transcription factors. PPARs form heterodimers with retinoic X receptors (RXRs). These heterodimers regulate transcription of genes involved in insulin action, adipocyte differentiation, lipid metabolism and inflammation. PPARγ is implicated in numerous diseases including obesity, diabetes, atherosclerosis and cancer. PPARγ activators include prostanooids, fatty acids, thiazolidinediones and N-(2-benzoylphenyl) tyrosine analogues. A key component in adipocyte differentiation and fat-specific gene expression, PPARγ may modulate macrophage functions such as pro-inflammatory activities and stimulate oxidized low-density lipoprotein (x-LDL) uptake. A Pro12Ala polymorphism of the PPARγ 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 PPARγ gene maybe correlated with abdominal obesity in type 2 diabetes.

CHROMOSOMAL LOCATION

Genetic locus: PPARG (human) mapping to 3p25.2.

SOURCE

PPARγ2 (A-1) is a mouse monoclonal antibody raised against a peptide mapping at the N-terminus of PPARγ2 of human origin.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-166731 X, 200 µg/0.1 ml. PPARγ2 (A-1) is available conjugated to agarose (sc-166731 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166731 HRP), 200 µg/ml, for Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000), non cross-reactive with PPARγ1. Suitable for use as control antibody for PPARγ2 shRNA (h): sc-29455, PPARγ2 shRNA Plasmid (h): sc-29455-SH and PPARγ2 shRNA (h) Lentiviral Particles: sc-29455-V. PPARγ2 (A-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications. Molecular Weight of PPARγ2 antibody is recommended for Gel Supershift and ChIP applications. Positive Controls: U-937 cell lysate: sc-2239.

DATA

PPARγ2 (A-1) Western blot analysis of PPARγ expression in non-transfected: sc-117752 (A) and mouse PPARγ transfected: sc-122729 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS


RESEARCH USE

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