PPAR gamma Antibody

ALTERNATE NAMES: PPARG, NR1C3

CATALOG #: 6833-25

AMOUNT: 25 µg

HOST/ISOTYPE: Rabbit

IMMUNOGEN: Polyclonal antibody raised in rabbit against human PPARG (peroxisome proliferator-activated receptor gamma), using a KLH-conjugated synthetic peptide containing a sequence from the central part of the protein.

FORM: Liquid

FORMULATION: In PBS containing 0.05% azide and 0.05% ProClin 300.

PURIFICATION: Affinity purified

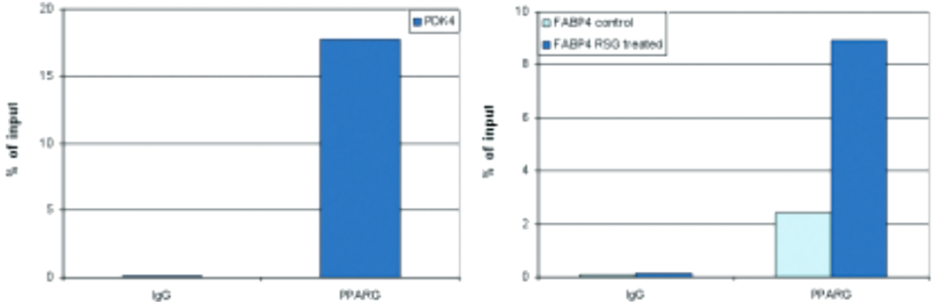
SPECIES REACTIVITY: Human and mouse.

STORAGE CONDITIONS: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

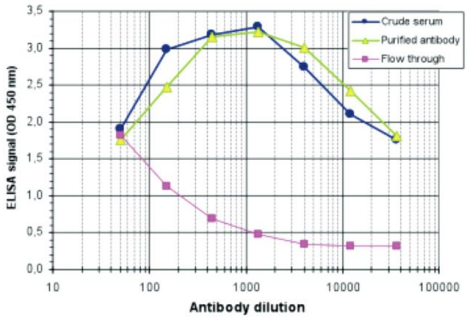
DESCRIPTION: PPARG is a nuclear hormone receptor which binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Like many other nuclear hormone receptors, PPARG forms a heterodimer with the retinoid X receptor (RXR) leading to transcriptional regulation of various genes including acyl-CoA oxidase and cytochrome P450 A6. PPARG has been implicated in adipocyte differentiation and glucose homeostasis and in various diseases such as obesity, diabetes, atherosclerosis and cancer.

APPLICATION: ChIP: 1 µg/ChIP, Western Blot: 1:2000, ELISA: 1:1000.

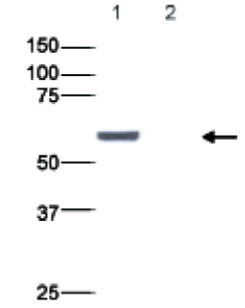
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



ChIP was performed on macrophages derived from mouse bone marrow using the antibody and optimized PCR primer sets for qPCR. Sheared chromatin from 1 million cells and 1 µg of PPARg antibody were used per ChIP experiment. IgG was used as a negative IP control. Figure 1: recovery, expressed as the % of input, of the PDK4 PPAR response element (RE). Figure 2: recovery of the FABP4 Adipo PPAR RE in cells treated with RSG, a very strong activating ligand of PPARG, and in untreated cells.



An ELISA was performed using a serial dilution of the antibody. The plates were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:70,250.



293T cells were transfected with pNTAP-PPARG and 20 µg of protein extract was analysed by Western blot using the antibody. Figure 2 shows the result of 293T cells transfected with pNTAP-PPARG (lane 1) and of non-transfected cells (lane 2). The position of the protein of interest is indicated on the right the marker (in kDa) is shown on the left.

RELATED PRODUCTS:

- PPAR gamma Antibody **(Cat # 3809-100)**
- PPAR-alpha Antibody **(Cat # 3585-100)**
- PPARγ, Human, Recombinant **(Cat # 4371-10)**
- PPARγ Antagonist, G3335 **(Cat # 1979-10, -25)**

FOR RESEARCH USE ONLY! Not to be used on humans.

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