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Product Information



PPAR γ Blocking Peptide

Item No. 301700

PPAR γ is a ligand-activated transcription factor involved in the regulation of lipid homeostasis and may function as a master regulator of adipogenesis.¹⁻⁴ PPAR γ mRNA is expressed prominently in adipose tissue, but is also found in large intestine, kidney, liver, and small intestine.⁵ Alternative splicing of the PPAR γ gene results in at least two mRNA species that differ at their 5' ends.^{2,6} The molecular weights of human PPAR γ 1 and PPAR γ 2 protein are 53 and 57 kDa, respectively, based on the deduced amino acid sequences.⁶ PPAR γ 2 is the major PPAR γ isoform found in both the cytosolic and nuclear fractions of undifferentiated 3T3-L1 cells.⁷ Total cellular PPAR γ 2 protein increases approximately 2-fold following differentiation of 3T3-L1 cells, whereas only small quantities of PPAR γ 1 are detected in the nuclear fraction following differentiation.⁷

Laboratory Procedures

This vial contains 200 μ g of lyophilized peptide derived from the human PPAR γ sequence. This peptide was used as an antigen for production of the PPAR γ Polyclonal Antibody (Item No. 101700) and can be used in conjunction with this antibody to block protein-antibody complex formation during immunochemical analysis for this protein.

Reconstitute the lyophilized peptide with 200 μ l of PBS or distilled water. Store this peptide solution at -20°C. It will be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the PPAR γ Polyclonal Antibody (Item No. 101700) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 μ l of antibody and 20 μ l of peptide.*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

References

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3. Spiegelman, B.M. and Flier, J.S. Adipogenesis and obesity: Rounding out the big picture. *Cell* **87**, 377-389 (1995).
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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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