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Product Information

PPARγ Blocking Peptide

Item No. 301700

PPARγ is a ligand-activated transcription factor involved in the regulation of lipid homeostasis and may function as a master regulator of adipogenesis.[1-4] PPARγ mRNA is expressed prominently in adipose tissue, but is also found in large intestine, kidney, liver, and small intestine.[5] Alternative splicing of the PPARγ gene results in at least two mRNA species that differ at their 5' ends.[2,6] The molecular weights of human PPARγ1 and PPARγ2 protein are 53 and 57 kDa, respectively, based on the deduced amino acid sequences.[6] PPARγ2 is the major PPARγ isoform found in both the cytosolic and nuclear fractions of undifferentiated 3T3-L1 cells.[7] Total cellular PPARγ2 protein increases approximately 2-fold following differentiation of 3T3-L1 cells, whereas only small quantities of PPARγ1 are detected in the nuclear fraction following differentiation.[7]

Laboratory Procedures

This vial contains 200 µg of lyophilized peptide derived from the human PPARγ sequence. This peptide was used as an antigen for production of the PPARγ 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 µl 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 PPARγ Polyclonal Antibody (Item No. 101700) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 20 µl 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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