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Product Information

Adipose Triglyceride Lipase Blocking Peptide

Item No. 10008492

Triglycerides are the most efficient form of energy storage in mammalian adipose tissue during times of caloric excess. Adipose triglyceride lipase (ATGL) is one of the key enzymes involved in the mobilization of fatty acids from triglyceride stores in adipose tissue, catalyzing the conversion of triacylglycerols to diacylglycerols.[1] Inhibition of ATGL markedly decreases total adipose acyl-hydrolase activity, and thus may be a potential drug target for the diabetic pathology.[1] ATGL mRNA is detected in a wide range of tissues including adipose, lung, skeletal muscle, testis, heart, brain, and kidney, with adipose tissue expressing the highest level.[2] Human ATGL is 504 amino acids in length with an estimated molecular weight of 55.2 kDa. Cayman's ATGL polyclonal antibody detects the enzyme at 56 kDa by western blot from tissues and cells such as brown fat, liver, murine macrophages, and HepG2 cells.

Laboratory Procedures

This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The ATGL blocking peptide (human ATGL amino acids 382-400) can be used in conjunction with Cayman's ATGL Polyclonal Antibody (Item No. 10006409) to block protein-antibody complex formation during immunochemical analysis of ATGL.

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 ATGL Polyclonal Antibody (Item No. 10006409) 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

1. Zimmermann, R., Strauss, J.G., Haemmerle, G., *et al.* Fat mobilization in adipose tissue is promoted by adipose triglyceride lipase. *Science* **306**, 1383-1386 (2004).
2. Villena, J.A., Roy, S., Sarkadi-Nagy, E., *et al.* Desnutrin, an adipocyte gene encoding a novel patatin domain-containing protein, is induced by fasting and glucocorticoids. Ectopic expression of desnutrin increases triglyceride hydrolysis. *J. Biol. Chem.* **279(45)**, 47066-47075 (2004).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10008492

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