

# ATGL Polyclonal Antibody

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| <b>CATALOG #:</b>          | 3814-100   |
| <b>AMOUNT:</b>             | 100 µg   |
| <b>LOT #:</b>              | _____  |
| <b>HOST:</b>               | Rabbit   |
| <b>IMMUNOGEN:</b>          | Synthetic peptide corresponding to residues surrounding amino acids 385 of human ATGL (ID# BV-943) |
| <b>SPECIES REACTIVITY:</b> | human, mouse, rat  |

## FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

## STORAGE CONDITIONS:

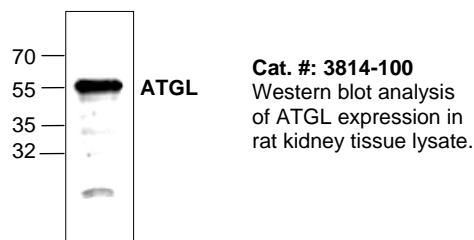
Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

## BACKGROUND:

Triglycerides form an important energy store in many living organisms. Adipose tissue serves as the primary storage depot for triglycerides in mammals. Lipolytic enzymes mobilize triglycerides during periods of starvation to provide organisms with necessary energy. Hormone-sensitive lipase (HSL), the first identified lipolytic enzyme, hydrolyzes triglycerides in mammalian adipose tissues. Additional lipolytic enzymes, including adipose triglyceride lipase (ATGL), have also been discovered. The primary function of ATGL is to catalyze the hydrolysis of the first ester bond of lipid molecules. This enzyme may provide diglyceride substrates for HSL hydrolysis. ATGL is abundantly expressed in murine white and brown adipose tissue, and is highly substrate specific. ATGL was independently identified as desnutrin and the TG-hydrolyase inducible phospholipase-A2- $\zeta$ .

## APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml) and immunoprecipitation. recognizes 54 kDa ATGL in samples from human, mouse and rat origins. However, the optimal concentrations should be determined individually. Blocking peptide (Cat.# 3814BP-50) is available separately.



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