

Product datasheet for **TA301537**

Adipose Triglyceride Lipase (PNPLA2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide within the C-terminal region [residues 400-500] of the human ATGL protein. [NCBI# NP_005171]
Formulation:	Tris-glycine, 150mM NaCl and 0.05% sodium azide
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	patatin like phospholipase domain containing 2
Database Link:	NP_065109 Entrez Gene 66853 Mouse Entrez Gene 57104 Human Q96AD5
Background:	Lipolytic enzymes are required for mobilization of fatty acids from triglyceride stores in adipose tissue. Energy homeostasis is affected by dysfunctional lipolysis and may contribute to the pathogenesis of obesity and insulin resistance. Until recently, hormone-sensitive lipase (HSL) was the only enzyme known to hydrolyze triglycerides in mammalian adipose tissue. It is now thought that a second enzyme, adipose triglyceride lipase (ATGL), catalyzes the initial step in triglyceride hydrolysis. ATGL is highly expressed in adipose tissue of mice and humans. It exhibits high substrate specificity for triacylglycerol and is associated with lipid droplets. Inhibition of ATGL markedly decreases total adipose acyl-hydrolase activity. Thus, ATGL and HSL coordinately catabolize stored triglycerides in adipose tissue of mammals.

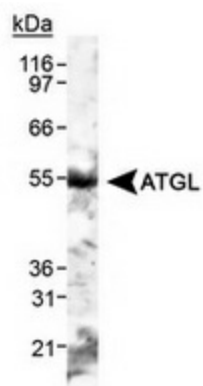


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Synonyms: 1110001C14Rik; ATGL; FP17548; iPLA2zeta; PEDF-R; TTS-2.2; TTS2

Protein Families: Transmembrane

Product images:



Detection of ATGL in human adipose tissue lysate