

Product datasheet for **AM09064PU-N**

Adipose Triglyceride Lipase (PNPLA2) Mouse Monoclonal Antibody [Clone ID: AT2G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT2G2
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western blot: 1/1000-1/2000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human ATGL (30-504 aa) purified from <i>E. coli</i> .
Specificity:	The antibody recognizes ATGL (PNPLA2).
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	patatin like phospholipase domain containing 2
Database Link:	Entrez Gene 66853 Mouse Entrez Gene 57104 Human Q96AD5
Background:	Adipose triglyceride lipase (ATGL) is a 504 amino acid protein that is highly expressed in mouse and human adipose tissue. ATGL catalyzes the initial step in triglyceride hydrolysis in adipocyte lipid droplets and has acylglycerol transacylase activity. Inhibition of ATGL markedly decreases total adipose acyl-hydrolase activity. Thus, ATGL and hormone-sensitive lipase coordinately catabolize stored triglycerides in adipose tissue of mammals.

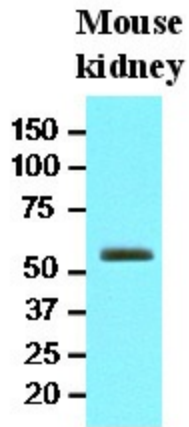


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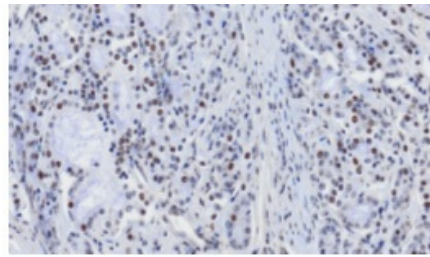
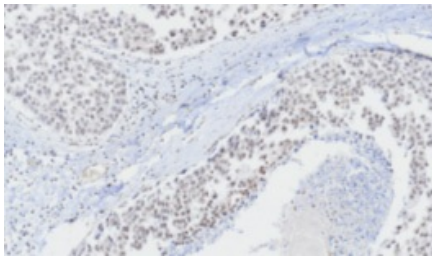
Synonyms: FP17548, Desnutrin, TTS2.2, IPLA2-zeta

Protein Families: Transmembrane

Product images:



Western blot analysis: The extracts of mouse kidney (20 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human ATGL (1/1000) (. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: Paraffin embedded sections of human breast cancer (left) and prostatic cancer (right) tissue were incubated with anti-human ATGL. (1:25) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer. Diaminobenzidine (DAB) was used for detection