1/1/24, 7:19 AM Revision 1

Revision 1							
여 전 제 전 전 전 전 전 전 (30/	A4) Rabbi	t mAb				ell Signaling сниогоду <sup>®</sup>	
Store at					Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#			ane   Danvers   Ma	anvers   Massachusetts   01923   USA			
For Research Use Only	Not for Use in	Diagnostic Proce	edures.				
Applications: WB, IP, IHC-P, IF-IC	Reactivity: M	Sensitivity: Endogenous	<b>MW (kDa):</b> 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q96AD5	Entrez-Gene Id: 57104	
Product Usage Information	Ар	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	nunoprecipitation				1:50	
	Imr	nunohistochemistry	(Paraffin)			1:50	
	Imr	nunofluorescence (I	mmunocytochen	nistry)		1:100	
StorageSupplied in 10 mM sodium HEPES (pH 7.5), 0.02% sodium azide. Store at -20°C. Do not					cerol and less than		
Specificity / Sensi	tivity Atg	ATGL (30A4) Rabbit mAb detects endogenous levels of total ATGL protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro469 of mouse ATGL.					
<b>Background</b> Triglycerides form an important energy store in many living organisms. Adipose tissue serve primary storage depot for triglycerides in mammals. Lipolytic enzymes mobilize triglycerides of starvation to provide organisms with necessary energy. Hormone-sensitive lipase (HSL), identified lipolytic enzyme, hydrolyzes triglycerides in mammalian adipose tissues (1-3). Addeenzymes, including adipose triglyceride lipase (ATGL), have also been discovered. The prim				verides during periods (HSL), the first -3). 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 (4). ATGL was independently identified as desnutrin (5) and the TG-hydrolace inducible phospholipase-A2-ζ (6).
 Background References
 1. Holm, C. et al. (1988) *Science* 241, 1503-1506.

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
	<ol> <li>Degerman, E. et al. (1990) Proc. Natl. Acad. Sci. USA 87, 533-537.</li> <li>Anthonsen, M.W. et al. (1998) J. Biol. Chem. 273, 215-221.</li> <li>Zimmermann, R. et al. (2004) Science 306, 1383-1386.</li> <li>Villena, J.A. et al. (2004) J. Biol. Chem. 279, 47066-47075.</li> <li>Jenkins, C.M. et al. (2004) J. Biol. Chem. 279, 48968-48975.</li> </ol>
Background References	1. Hollin, C. et al. (1988) Science 241, 1503-1506.

Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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## ATGL (30A4) Rabbit mAb (#2439) Datasheet Without Images Cell Signaling Technology

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