ក្តុ TBC1D1 (V796) Antibody			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
6	Support:	877-678-TECH (8324)	
#4629	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: WB, IP	Reactivity: M	Sensitivity: Endogenous	<b>MW (kDa):</b> 160	Source: Rabbit	UniProt ID: #Q86TI0	Entrez-Gene Id: 23216		
Product Usage		Application			Dilution			
Information	V	Western Blotting 1:1000						
	li	mmunoprecipitation			1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sens	itivity ⊺	TBC1D1 (V796) Antibody detects endogenous levels of total TBC1D1 protein.						
Source / Purificat	se	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence around Val796 of mouse TBC1D1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	be (2 cc (5 (5	TBC1D1 is a paralog of AS160 (1) and both proteins share about 50% identity (2). TBC1D1 was shown to be a candidate gene for severe obesity (3). It plays a role in Glut4 translocation through its GAP activity (2,4). Studies indicate that TBC1D1 is highly expressed in skeletal muscle (1). Insulin, AICAR, and contraction directly regulate TBC1D1 phosphorylation in this tissue (1). Three AMPK phosphorylation sites (Ser231, Ser660, and Ser700) and one Akt phosphorylation site (Thr590) were identified in skeletal muscle (5). Muscle contraction or AICAR treatment increases phosphorylation on Ser231, Ser660, and Ser700 but not on Thr590; insulin increases phosphorylation on Thr590 only (5).						
Background Refe	2. 3. 4.	<ol> <li>Taylor, E.B. et al. (2008) J Biol Chem 283, 9787-96.</li> <li>Roach, W.G. et al. (2007) Biochem J 403, 353-8.</li> <li>Stone, S. et al. (2006) Hum Mol Genet 15, 2709-20.</li> <li>Chavez, J.A. et al. (2008) J Biol Chem 283, 9187-95.</li> <li>Vichaiwong, K. et al. (2010) Biochem J 431, 311-20.</li> </ol>						
Species Reactivit	<b>y</b> Sp	ecies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., w	estern blot).		
Western Blot Buff		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	w	B: Western Blotting IF	P: Immunoprecipita	tion				
Cross-Reactivity	У Х:	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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## TBC1D1 (V796) Antibody (#4629) Datasheet Without Images Cell Signaling Technology

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