Store at -20C

Phospho-TBC1D1 (Ser660) Antibody



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Applications: WB	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 160	Source: Rabbit	UniProt ID: #Q60949	Entrez-Gene Id: 57915	
Product Usage Information	Aį	oplication			Dilution		
	W	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensiti		Phospho-TBC1D1 (Ser660) Antibody recognizes transfected levels of TBC1D1 protein only when phosphorylated at Ser660.					
Species predicted to react based on 100 sequence homolog	%	t					
Source / Purification	res	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser660 of mouse TBC1D1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	be (2,4 cor (Se (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 References

- 1. Taylor, E.B. et al. (2008) J Biol Chem 283, 9787-96.
- 2. Roach, W.G. et al. (2007) Biochem J 403, 353-8.
- 3. Stone, S. et al. (2006) Hum Mol Genet 15, 2709-20.
- 4. Chavez, J.A. et al. (2008) J Biol Chem 283, 9187-95.
- 5. Vichaiwong, K. et al. (2010) Biochem J 431, 311-20.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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

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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