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TBC1D1 (D2Y8M) Rabbit mAb

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#66433

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New 09/16

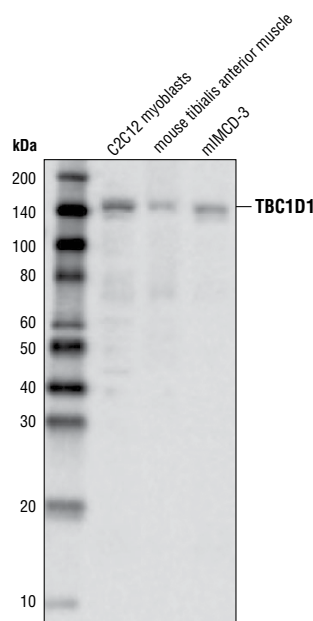
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Applications W, IP	Species Cross-Reactivity* M	Molecular Wt. 160 kDa	Isotype Rabbit IgG**
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Background: TBC1D1 is a paralog of AS160 (1) and both proteins share about 50% identity (2). TBC1D1 was shown 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).

Specificity/Sensitivity: TBC1D1 (D2Y8M) Rabbit mAb recognizes endogenous levels of total TBC1D1 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val796 of mouse TBC1D1 protein.



Western blot analysis of extracts from C2C12 myoblasts, mouse tibialis anterior muscle and mIMCD-3 cells using TBC1D1 (D2Y8M) Rabbit mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

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.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.