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# TBC1D3C (h): 293T Lysate: sc-117362

## BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. TBC1D3C (TBC1 domain family, member 3C) is a 549 amino acid protein that contains one Rab-GAP TBC domain and belongs to a family of TBC domain-containing proteins that may convey a role in the regulation of cell growth and differentiation. Expressed in thymus, pancreas and testis, TBC1D3C is thought to function as a GTPase-activating protein for Rab 5, possibly participating in Rab-mediated cell cycle control and, ultimately, cellular differentiation. The gene encoding TBC1D3C maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

## REFERENCES

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3. Hodzic, D., Kong, C., Wainszelbaum, M.J., Charron, A.J., Su, X. and Stahl, P.D. 2006. TBC1D3, a hominoid oncoprotein, is encoded by a cluster of paralogues located on chromosome 17q12. *Genomics* 88: 731-736.
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5. Wainszelbaum, M.J., Charron, A.J., Kong, C., Kirkpatrick, D.S., Srikanth, P., Barbieri, M.A., Gygi, S.P. and Stahl, P.D. 2008. The hominoid-specific oncogene TBC1D3 activates Ras and modulates epidermal growth factor receptor signaling and trafficking. *J. Biol. Chem.* 283: 13233-13242.
6. Frittoli, E., Palamidessi, A., Pizzigoni, A., Lanzetti, L., Garrè, M., Troglio, F., Troilo, A., Fukuda, M., Di Fiore, P.P., Scita, G. and Confalonieri, S. 2008. The primate-specific protein TBC1D3 is required for optimal macropinocytosis in a novel ARF6-dependent pathway. *Mol. Biol. Cell* 19: 1304-1316.

## CHROMOSOMAL LOCATION

Genetic locus: TBC1D3C (human) mapping to 17q12.

## PRODUCT

TBC1D3C (h): 293T Lysate represents a lysate of human TBC1D3C transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

TBC1D3C (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TBC1D3C antibodies.

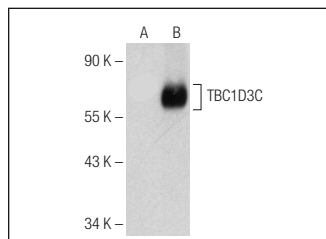
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TBC1D3/3B/3C/3G (H-7): sc-376073 is recommended as a positive control antibody for Western Blot analysis of enhanced human TBC1D3C expression in TBC1D3C transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

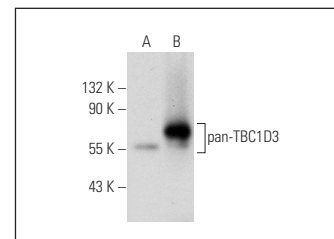
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



TBC1D3/3B/3C/3G (H-7): sc-376073. Western blot analysis of TBC1D3C expression in non-transfected: sc-117752 (A) and human TBC1D3C transfected: sc-117362 (B) 293T whole cell lysates.



pan-TBC1D3 (C-8): sc-514028. Western blot analysis of pan-TBC1D3 expression in non-transfected: sc-117752 (A) and human TBC1D3C transfected: sc-117362 (B) 293T whole cell lysates.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.