# TBC1D5 (h): 293T Lysate: sc-113811



The Power to Question

## **BACKGROUND**

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. TBC1D5 (TBC1 domain family, member 5), also known as KIAA0210, is a 795 amino acid protein that likely acts as a GTPase-activating protein for Rab family members. TBC1D5 contains one Rab-GAP TBC domain and multiple phosphoserine and phosphothreonine residues. The gene encoding TBC1D5 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

## REFERENCES

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- Brill, L.M., et al. 2004. Robust phosphoproteomic profiling of tyrosine phosphorylation sites from human T cells using immobilized metal affinity chromatography and tandem mass spectrometry. Anal. Chem. 76: 2763-2772.
- 4. Tsend-Ayush, E., et al. 2004. Plasticity of human chromosome 3 during primate evolution. Genomics 83: 193-202.
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## **CHROMOSOMAL LOCATION**

Genetic locus: TBC1D5 (human) mapping to 3p24.3.

# **PRODUCT**

TBC1D5 (h): 293T Lysate represents a lysate of human TBC1D5 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## **APPLICATIONS**

TBC1D5 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TBC1D5 antibodies. Recommended use: 10-20  $\mu$ l per lane

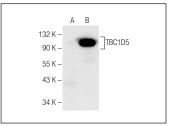
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TBC1D5 (E-9): sc-376296 is recommended as a positive control antibody for Western Blot analysis of enhanced human TBC1D5 expression in TBC1D5 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-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **DATA**



TBC1D5 (E-9): sc-376296. Western blot analysis of TBC1D5 expression in non-transfected: sc-117752 (A) and human TBC1D5 transfected: sc-113811 (B) 293T whole cell levels.

#### **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.

#### **RESEARCH USE**

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

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.