

TBC1D4 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP08853
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human AS160. AA range:611-660
Mol wt	146563
Species reactivity	Human, Mouse
Clonality	Polyclonal
Recommended application	IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	TBC1D4 Antibody
Synonyms	TBC1D4; AS160; KIAA0603; TBC1 domain family member 4; Akt substrate of 160 kDa; AS160

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

TBC1D4 (TBC1 domain family member 4) is a member of the Tre-2/BUB2/CDC16 domain family. The protein encoded by TBC1D4 is a Rab-GTPase-activating protein, and contains two phosphotyrosine-binding domains (PTB1 and PTB2), a calmodulin-binding domain (CBD), a Rab-GTPase domain, and multiple AKT phosphomotifs. This protein is thought to play an important role in glucose homeostasis by regulating the insulin-dependent trafficking of the glucose transporter 4 (GLUT4), important for removing glucose from the bloodstream into skeletal muscle and fat tissues. Reduced expression of this gene results in an increase in GLUT4 levels at the plasma membrane, suggesting that this protein is important in intracellular retention of GLUT4 under basal conditions. When exposed to insulin, this protein is phosphorylated, dissociates from GLUT4 vesicles, resulting in increased GLUT4 at the cell surface, and enhanced glucose transport. Phosphorylation of this protein by AKT is required for proper translocation of GLUT4 to the cell surface. Individuals homozygous for a mutation in this gene are at higher risk for type 2 diabetes and have higher levels of circulating glucose and insulin levels after glucose ingestion. Alternative splicing results in multiple transcript variants encoding different isoforms.

Recommended Dilution

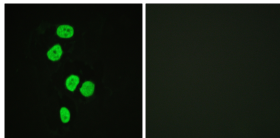
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

ELISA: 1: 10000

Not yet tested in other applications.

Images



Immunofluorescence analysis of HeLa cells, using AS160 Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com