Product Name: TBC1D4 (phospho Thr642) Rabbit

Polyclonal Antibody Catalog #: APRab05539



Summary

Production Name TBC1D4 (phospho Thr642) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name TBC1D4

TBC1D4; AS160; KIAA0603; TBC1 domain family member 4; Akt substrate of 160 kDa; Alternative Names

AS160

Gene ID 9882.0

O60343.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

AS160 around the phosphorylation site of Thr642. AA range:611-660

Application

Dilution Ratio

WB 1:500-2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:5000.Not yet

tosted in other applications

tested in other applications.

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Molecular Weight

150kDa

Background

This gene is a member of the Tre-2/BUB2/CDC16 domain family. The protein encoded by this gene is a Rab-GTPaseactivating protein, and contains two phopshotyrosine-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. Phdisease: May be involved in atopic dermatitis (AD),,function:May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Isoform 2 promotes insulininduced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake, PTM: Insulin-stimulated phosphorylation is required for SLC2A4/GLUT4 translocation., PTM: Phosphorylated by AKT1; insulin-induced., PTM: Physiological hyperinsulinemia increases phosphorylation in skeletal muscle. Insulin-stimulated phosphorylation is reduced by 39% in type 2 diabetic patients, similarity: Contains 1 Rab-GAP TBC domain., similarity: Contains 2 PID domains., subcellular location: Isoform 2 shows a cytoplasmic perinuclear localization in a myoblastic cell line in resting and insulin-stimulated cells.,tissue specificity: Widely expressed, but differential expression for isoforms 1 and 2, with highest overall expression of isoform 2 in most tissues. Isoform 1 is highly expressed in skeletal muscle and heart, but was not detectable in the liver nor in adipose tissue. Isoform 2 strongly expressed in adrenal and thyroid gland, and also in lung, kidney, colon, brain and adipose tissue. Moderate isoform 2 expression in skeletal muscle. Expressed in pancreatic Langerhans islets, including beta cells (at protein level). Expression is decreased by twofold in pancreatic islets in type 2 diabetes patients compared to control subjects.,

Research Area

Insulin Receptor

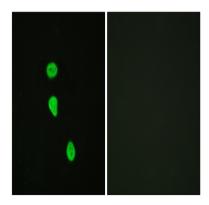
Image Data

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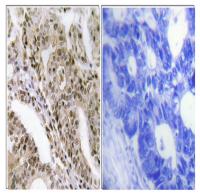
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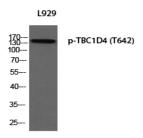


Immunofluorescence analysis of HeLa cells, using AS160 (Phospho-Thr642) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using AS160 (Phospho-Thr642) Antibody.

The picture on the right is blocked with the phospho peptide.



Western blot analysis of L929 using p-TBC1D4 (T642) antibody. Antibody was diluted at 1:2000

Note

For research use only.